

**DTIC FILE COPY**

2

**AD-A233 053**

**A GUIDE TO  
EDI TRANSLATION SOFTWARE**

**1991 Edition**

**Report PL005R1**

**DTIC  
ELECTE  
MAR 20 1991**

**Harold L. Frohman**

Prepared pursuant to Department of Defense Contract MDA903-85-C-0139.  
The views expressed here are those of the Logistics Management Institute at  
the time of issue but not necessarily those of the Department of Defense.  
Permission to quote or reproduce any part - except for Government  
purposes - must be obtained from the Logistics Management Institute.

**LOGISTICS MANAGEMENT INSTITUTE  
6400 Goldsboro Road  
Bethesda, Maryland 20817-5886**

**DISTRIBUTION STATEMENT A**

**Approved for public release;  
Distribution Unlimited**

**91 2 11 158**

# REPORT DOCUMENTATION PAGE

Form Approved  
OPM No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources gathering, and maintaining the data needed, and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

**1. AGENCY USE ONLY (Leave Blank)****2. REPORT DATE**

1991

**3. REPORT TYPE AND DATES COVERED**

Final

**4. TITLE AND SUBTITLE**

A Guide to EDI Translation Software, 1991 Edition

**5. FUNDING NUMBERS**

C MDA903-85-C-0139  
PE 0902198D

**6. AUTHOR(S)**

Harold L. Frohman

**7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)**

Logistics Management Institute  
6400 Goldsboro Road  
Bethesda, MD 20817-5886

**8. PERFORMING ORGANIZATION  
REPORT NUMBER**

LMI-PL005R1

**9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)**

Office of the Assistant Secretary of Defense (Production and Logistics)  
The Pentagon  
Room 3E808  
Washington, DC 20301-8000

**10. SPONSORING/MONITORING  
AGENCY REPORT NUMBER****11. SUPPLEMENTARY NOTES**

This report updates an earlier edition published in November 1989.

**12a. DISTRIBUTION/AVAILABILITY STATEMENT**

A. Approved for public release; distribution unlimited

**12b. DISTRIBUTION CODE****13. ABSTRACT (Maximum 200 words)**

This guide identifies and provides details on 72 commercially available electronic data interchange (EDI) translation software packages. It was developed for use by the Military Departments and Defense agencies as they procure EDI translation software packages in support of the Department of Defense's (DoD's) EDI program for transportation. However, other DoD entities with an EDI program should find this guide useful.

This guide assesses the key features of each package, details a list of functions available in a particular software package, and highlights those features required to meet the EDI needs of Defense transportation in specific operating environments.

**14. SUBJECT TERMS**

Transportation; Electronic Data Interchange; EDI; EDI Translation Software; EDI Software

**15. NUMBER OF PAGES**

130

**16. PRICE CODE****17. SECURITY CLASSIFICATION  
OF REPORT**

Unclassified

**18. SECURITY CLASSIFICATION  
OF THIS PAGE**

Unclassified

**18. SECURITY CLASSIFICATION  
OF ABSTRACT**

Unclassified

**20. LIMITATION OF ABSTRACT**

UL

# CONTENTS

|  | <u>Page</u>  |
|--|--------------|
| A Guide to EDI Translation Software .....                            | 1            |
| Glossary .....   | Gloss. 1 - 7 |
| Appendix A. EDI Translation Software Vendor List .....               | A-1 - A-18   |
| Appendix B. Vendor Information .....                                 | B-1 - B-80   |
| Appendix C. EDI Translation Software Functions<br>and Features ..... | C-1 - C- 3   |
| Appendix D. Software Product Survey Results .....                    | D-1 - D-12   |
| Appendix E. Selecting EDI Translation Software .....                 | E-1          |

|                |                       |
|----------------|-----------------------|
| Accession For  |                       |
| NTIS GRA&I     | ✓                     |
| DTIC TAB       | □                     |
| Unannounced    | □                     |
| Justification  |                       |
| By             |                       |
| Distribution / |                       |
| Availability / |                       |
| Dist           | Avail & or<br>Special |
| A-1            |                       |



# **A GUIDE TO EDI TRANSLATION SOFTWARE**

**1991 Edition**

This edition of *A Guide to EDI* [electronic data interchange] *Translation Software, 1991 Edition* updates and expands the information presented in our previous version published in August 1989. As in our earlier edition, the guide identifies and provides details on commercially available EDI translation software packages. It was created to aid the Military Departments and Defense agencies as they procure software in support of DoD's EDI program for transportation. However, all DoD entities with an EDI program should find the guide useful.

In the guide, we identify a variety of EDI software packages, assess the key features of each package, detail a list of functions and features that could be contained within a particular software package, and highlight those features that we believe are required to meet the EDI needs of Defense transportation in specific operating environments. We also show how to use the guide to select EDI translation software.

We obtained information on the various translation software packages from product brochures and telephone interviews. We have not seen demonstrations of every software package, so we cannot endorse their effectiveness. Furthermore, we did not survey vendors that remarket EDI translation software products or that sell industry-specific (nontransportation) products. As in the preparation of the 1989 edition, some vendors did not respond to our requests for additional information.

The guide consists of a glossary and five appendices. The glossary defines the acronyms used throughout the guide and the terminology used to describe the various EDI software functions and features.

Appendix A lists the EDI software vendors we contacted during the preparation of the guide. The vendors are grouped by the type of hardware required to use the software: microcomputer, minicomputer, or mainframe. In addition, Table A-1 identifies the vendors that were excluded from the guide and the associated reasons.

Both the vendor list and the table provide the vendor's address, telephone number, and point of contact.

Appendix B provides detailed information on each of the EDI translation software vendors identified in Appendix A. It focuses on the products offered by the vendors including the hardware operating environment, software pricing, and third-party networks directly accessed by the software package.

Appendix C identifies 48 functions and features that could be contained within a particular EDI translation software package. It also indicates those functions that we regard as required to meet the EDI needs of Defense transportation in specific operating environments.

Appendix D presents the results of the telephone surveys. The information is categorized by the type of hardware required to use the software: microcomputer, minicomputer, or mainframe. It also provides details on some of the software functions highlighted in Appendix C.

Appendix E lists the steps to be followed when using the guide to select EDI translation software packages.

If you need further information on any of the EDI translation software vendors or the capabilities of their software, you may contact either the person listed below or the vendors directly:

Harold L. Frohman  
Logistics Management Institute  
6400 Goldsboro Road  
Bethesda, MD 20817-5886  
(301) 320-7286  
A/V 287-2779/2127

## **GLOSSARY**

### **DEFINITION OF ACRONYMS**

|                 |          |   |
|-----------------|----------|---|
| <b>AIAG</b>     | <b>=</b> | <b>Automotive Industry Action Group</b>                                       |
| <b>ANSI</b>     | <b>=</b> | <b>American National Standards Institute</b>                                  |
| <b>APL</b>      | <b>=</b> | <b>A Programming Language</b>   |
| <b>ASCII</b>    | <b>=</b> | <b>American Standard Code for Information Interchange</b>                     |
| <b>AT&amp;T</b> | <b>=</b> | <b>American Telephone and Telegraph</b>                                       |
| <b>BASIC</b>    | <b>=</b> | <b>Beginners All Purpose Symbolic Instruction Code</b>                        |
| <b>BT</b>       | <b>=</b> | <b>British Telecom</b>  |
| <b>BTOS</b>     | <b>=</b> | <b>Burroughs Operating System</b>   |
| <b>CICS</b>     | <b>=</b> | <b>Customer Information Control System</b>                                    |
| <b>CNCP</b>     | <b>=</b> | <b>Canadian National/Canadian Pacific</b>                                     |
| <b>COBOL</b>    | <b>=</b> | <b>Common Business Oriented Language</b>                                      |
| <b>CPU</b>      | <b>=</b> | <b>central processing unit</b>  |
| <b>CTOS</b>     | <b>=</b> | <b>Convergent Technologies Operating System</b>                               |
| <b>CTX</b>      | <b>=</b> | <b>Chrysler Telecommunication Exchange</b>                                    |
| <b>DB2</b>      | <b>=</b> | <b>Database 2</b>   |
| <b>DEC</b>      | <b>=</b> | <b>Digital Equipment Corporation</b>  |
| <b>DOS</b>      | <b>=</b> | <b>disk operating system</b>  |
| <b>DOS/VSE</b>  | <b>=</b> | <b>disk operating system/virtual system extended</b>                          |
| <b>DTS</b>      | <b>=</b> | <b>Document Transmission System</b>   |
| <b>DIBOL</b>    | <b>=</b> | <b>Digital COBOL</b>  |
| <b>EBCDIC</b>   | <b>=</b> | <b>Extended Binary Coded Decimal Interchange Code</b>                         |
| <b>EDI</b>      | <b>=</b> | <b>electronic data interchange</b>  |
| <b>EDIFACT</b>  | <b>=</b> | <b>Electronic Data Interchange for Administration, Commerce and Transport</b> |
| <b>EFT</b>      | <b>=</b> | <b>electronic funds transfer</b>  |
| <b>FORTRAN</b>  | <b>=</b> | <b>Formula translator</b>   |

|                 |          |  |
|-----------------|----------|--|
| <b>FTS</b>      | <b>=</b> | <b>Financial Transmission System</b>                     |
| <b>GEIS</b>     | <b>=</b> | <b>General Electric Information Services</b>             |
| <b>GM</b>       | <b>=</b> | <b>General Motors</b>                                    |
| <b>HP</b>       | <b>=</b> | <b>Hewlett-Packard</b>                                   |
| <b>IBM</b>      | <b>=</b> | <b>International Business Machines</b>                   |
| <b>ID</b>       | <b>=</b> | <b>identification</b>                                    |
| <b>IMS/DC</b>   | <b>=</b> | <b>Information Management System/Data Communications</b> |
| <b>LAN</b>      | <b>=</b> | <b>local area network</b>                                |
| <b>MB</b>       | <b>=</b> | <b>megabyte</b>  |
| <b>MPE</b>      | <b>=</b> | <b>multiprogramming executive</b>                        |
| <b>MSA</b>      | <b>=</b> | <b>Management Science America</b>                        |
| <b>MS-DOS</b>   | <b>=</b> | <b>Microsoft disk operating system</b>                   |
| <b>MVS</b>      | <b>=</b> | <b>multiple virtual storage</b>                          |
| <b>NCR</b>      | <b>=</b> | <b>National Cash Register</b>                            |
| <b>PC</b>       | <b>=</b> | <b>personal computer</b>                                 |
| <b>PS/2</b>     | <b>=</b> | <b>Personal System/2</b>                                 |
| <b>QMF</b>      | <b>=</b> | <b>Query Management Facility</b>                         |
| <b>RAM</b>      | <b>=</b> | <b>random access memory</b>                              |
| <b>RJE</b>      | <b>=</b> | <b>remote job entry</b>                                  |
| <b>RM COBOL</b> | <b>=</b> | <b>Rand McFarland Common Business Oriented Language</b>  |
| <b>RMS</b>      | <b>=</b> | <b>Release Management Systems</b>                        |
| <b>RPG</b>      | <b>=</b> | <b>report program generator</b>                          |
| <b>SCO</b>      | <b>=</b> | <b>Santa Cruz Operation</b>                              |
| <b>SQL</b>      | <b>=</b> | <b>Structured Query Language</b>                         |
| <b>TCIF</b>     | <b>=</b> | <b>Telecommunications Industry Forum</b>                 |
| <b>TDCC</b>     | <b>=</b> | <b>Transportation Data Coordinating Committee</b>        |
| <b>TSO</b>      | <b>=</b> | <b>timesharing operation</b>                             |
| <b>UCS</b>      | <b>=</b> | <b>Uniform Communication Standard</b>                    |
| <b>VAN</b>      | <b>=</b> | <b>value-added network</b>                               |
| <b>VAX</b>      | <b>=</b> | <b>virtual address extension</b>                         |

|      |   |  |
|------|---|--|
| VICS | = | Volunteer Interindustry Communication Standard |
| VLT  | = | variable length translator                     |
| VMS  | = | virtual memory system                          |
| WINS | = | Warehouse Industry Network Standard            |

## DEFINITION OF TERMS

**Application System Interface.** A routine that extracts data from an application system database and creates fixed-length files in the vendor's format for subsequent translation to an EDI format. The reverse process is also applicable.

**Automated Purging.** A feature that automatically deletes archived transaction set data according to user-specified criteria, such as date ranges.

**Automatic Recovery/Restart Capability.** A routine that automatically recovers any data being processed and restarts the application in the event of a power failure or a communications failure.

**Character Conversion Capability.** Translation software that converts a sender's character set to the character set required by the receiver's computer (e.g., EBCDIC to ASCII).

**Code Conversion Capability.** The ability to convert an EDI standard data element code into a user-unique code.

**Compatibility with Encryption and Authentication Package.** A translation software package that can operate with an encryption and authentication package.

**Communications Software.** A software module that automatically dials the communications network and sends or receives EDI-formatted data.

**Data Element Delimiter Table.** A table of alternative data element delimiters that is maintained for each trading partner, thus accommodating the requirements of different trading partners.

**Data Input Screens.** A set of screens used to enter data into the translation software package for subsequent translation into an EDI format. (This feature is required when an application system does not reside on the user's computer.)



**Error Reports.** Reports of outbound or inbound transaction sets that do not comply with the EDI standards. (These reports are usually printed logs of each communications session presented in a non-EDI format easily understood by the user.)

**Expandability.** The ability to incorporate new functions, such as EDI transaction sets, into an existing translation software package.

**Functional Acknowledgment Capability.** The ability to send or receive a Functional Acknowledgment Transaction Set that indicates the status of each EDI transaction set transmission to or from a trading partner.

**Functional Acknowledgment Reconciliation.** The matching of transaction set messages with functional acknowledgments to identify the successful receipt of information by trading partners and the highlighting of unacknowledged transaction sets that have been sent.

**Help Screens.** On-line screens that provide assistance in the use of specific translation software functions.

**Inbound Standards Compliance Editing.** The editing of data received from trading partners to determine whether they are in compliance with the EDI standards.

**Inbound Transaction Set Reporting.** The capability to print inbound transaction sets for audit trail purposes. (The date and time of every message received should be included in the report.)

**Input Editing.** A feature that permits the user to edit each field and segment of a transaction set as data are manually entered into a system in order to ensure compliance with EDI standards.

**Installation Routines.** Programs that automatically install translation software packages onto a computer with minimal user intervention.

**Internal ID Number Duplication Control.** A program that monitors the use of internal business document identification numbers, such as invoice numbers, to avoid duplicates.

**Maintenance Support.** EDI standard updates and software enhancements provided by the translation software vendor, usually for an annual fee.

**Multiple Communications Interface.** Translation software that allows communication with more than one telecommunications network, preferably in the same communication session.

**Multiple Header Support.** EDI translation software that supports multiple envelope headers including ISA and BG, depending on trading partner requirements.

**Multiple Users.** A feature that permits more than one person to use a translation software system concurrently. (On those personal computers that use DOS, a local area network typically provides this feature.)

**Network Identification Table.** A table containing network addresses, telephone numbers, and other related information needed to communicate with a trading partner through a telecommunications network.

**Outbound Standards Compliance Editing.** The editing of data sent to trading partners to determine whether they are in compliance with EDI standards.

**Outbound Transaction Set Reporting.** The capability to print outbound transaction sets for audit trail purposes. (The date and time of every message sent should be included in the report.)

**Segment Terminator Table.** A table of alternative segment terminators that is maintained for each trading partner, thus allowing for different communications network or trading partner requirements.

**Selective Accessibility.** A feature that limits user access to specific screens and functions.

**System Entry Security.** Features that provide system security through the use of passwords and/or user-identification codes.

**Table-Driven Software Structure.** EDI data elements and segments maintained in a table structure.

**Technical Documentation.** A narrative and graphic description of a system that provides technical personnel with sufficient details to "troubleshoot" portions of the

translation software. (A data dictionary, a system flow chart, and all file structures are typically included in technical documentation.)

**Trading Partner Profile.** A profile of each trading partner that identifies the segments in a transaction set required by that trading partner.

**Training.** Vendor-offered training sessions that teach how to use their translation software package.

**Transaction Set Archiving.** EDI-formatted data that are saved on the computer for query purposes or for restoration in the event of a computer failure.

**Transaction Set Consolidation Routines.** Software that groups transaction sets by trading partner prior to transmission, thus reducing communications costs; if more than one telecommunications network is used, the transaction sets are first grouped by network and then by trading partner.

**Transaction Set Correction Capability.** The ability to either correct an outbound standards compliance editing error in a front-end operating environment or modify transaction set data prior to transmission. (This capability should be provided in a format that does not require knowledge of EDI standards.)

**Transaction Set Sequential Numbering.** A routine that either assigns a sequential control number for all transmitted transaction sets for each trading partner or enables the receiver to determine whether a transaction set is missing from the transmission by checking the sequential numbers of inbound transactions.

**Transmitted Characters.** A report of the number of characters transmitted and the time and date of each transmission for each network. (The report allows the user to reconcile each network's bill.)

**Tutorial Package.** An interactive, on-line program that guides a user through a prescribed sequence of steps on using a particular translation software package.

**Unattended Operations Capability.** The ability to program the EDI translation software to automatically perform EDI-related processes such as sending or receiving EDI-formatted data at a user-specified time without operator presence.

**User-Definable System Interface.** Automated data-mapping procedures embedded in the EDI translation software package that create fixed-length files

according to the user's requirements for subsequent translation to an EDI format. The reverse process is also applicable.

**User-Defined Management Reports.** Ad hoc management reports that can be created by the user, typically through a report generator embedded in the translation software package.

**User-Defined Print Output.** A feature that permits the user to define the output format for printing manually entered data.

**User Documentation.** A nontechnical description of the translation software system and the operation of all system functions.

**User Support (Hot Lines).** Telephone support provided by a vendor to resolve any operating problems when using a translation software package.

**User-Defined Data Input Screens.** A set of user-defined screens for entering data into the translation software package for subsequent translation into an EDI format. These screens are presented in a non-EDI format that does not require knowledge of EDI standards.

**Version Support.** Translation software that supports the current and two previous releases of an EDI standard.

**Version Support Table.** A table that identifies the version of every EDI standard being used by each trading partner.

## **APPENDIX A**

### **EDI TRANSLATION SOFTWARE VENDOR LIST**

This appendix lists all the EDI translation software vendors contacted during the preparation of this guide. We have grouped the vendors according to the hardware required by their software: microcomputer, minicomputer, or mainframe. Those vendors excluded from the guide and our reasons are provided in Table A-1. Both the list and the table provide an address, telephone number, and point of contact for each vendor.



## **Microcomputer Software Vendors**

**Advanced Communications Systems**  
25054 Lorain Road  
North Olmsted, OH 44070  
Dan Norris  
(800) 223-5424

**American Business Computer**  
1968 Green Road  
P. O. Box 305  
Ann Arbor, MI 48106  
Anne Hurtubise  
(313) 930-7840

**American Custom Software, Inc.**  
2420 Fisk Road  
Cookeville, TN 38501  
Robert Sparkman  
(615) 537-6516

**The APL Group, Inc.**  
644 Danbury Road  
Wilton, CT 06897  
Rick Samuelson  
(203) 762-3933

**Baggerly & Associates**  
1420 N. Claremont Boulevard, Suite 209C  
Claremont, CA 91711  
Elizabeth Nash  
(714) 625-7917

**Bell Atlantic Network Services, Inc.**  
1310 N. Courthouse Road, 7th Floor  
Arlington, VA 22201  
Marjorie MacArthur  
(703) 974-3919

**Birmingham Computer Group, Inc.**  
30850 Telegraph Road, Suite 250  
Birmingham, MI 48010  
Chuck Townsend  
(313) 540-0640

**Lloyd Bush, Inc.**  
156 William Street  
New York, NY 10038  
Marcy McKinley  
(212) 962-4004

**CAN/AM Tech Inc.**  
205 South Main Street  
Slippery Rock, PA 16057  
Norm Morrison  
Dave Scheele  
(412) 794-5884

**Control Data Corporation**  
14725 Detroit Avenue  
Lakewood, OH 44107  
Phil Kimble  
(919) 854-4563  
Jim Townes  
(703) 998-1870

**Data Dispatch Corporation**  
2000 Corporate Ridge, Suite 910  
McLean, VA 22102  
Fred Cuthbertson  
(703) 749-3636

**DIGIT Software, Inc.**  
P. O. Box 1425  
Silver Spring, MD 20902  
Todd Ross  
(301) 593-8952

**DNS Associates, Inc.**  
One Militia Drive, Suite B1  
Lexington, MA 02173  
Hugh Stewart  
(617) 862-8569



**Dynamic Business Systems**  
24600 Center Ridge Road  
Westlake, OH 44145  
Dennis Chatfield  
(216) 398-6088

**EDI, Inc.**  
19630 Club House Road  
Gaithersburg, MD 20879  
Ralph Notto  
(301) 670-0811

**Electronic Data Systems**  
800 Tower Drive, 2nd Floor  
Troy, MI 48007-7019  
Ellen Lux  
(800) 365-8232

**Foretell Corporation**  
155 North Pfingsten Road, Suite 210  
Deerfield, IL 60015  
Michael Fitch  
Lynne Pilsner  
(708) 317-9000

**General Electric Information Services**  
401 North Washington Street  
Rockville, MD 20850  
Dick Donohoe  
James Motyka  
(301) 340-4000

**Grace Computer Resources, Inc.**  
204 Merchants Drive  
Norcross, GA 30093  
Roy Leffew, Jr.  
(404) 939-1743

**Harbinger\*EDI Services**  
1800 Century Place, Suite 340  
Atlanta, GA 30345  
Jim Langford  
(404) 320-1636

**International Business Machines**  
3405 West Buffalo Avenue  
Mail Drop S405A  
Tampa, FL 33630  
Mike McElroy  
(813) 878-4118

**Integrated Telecommunication Software Corp.**  
7840 North Lincoln Avenue  
Skokie, IL 60077  
Phil Keminsky  
(708) 677-0800

**LEK Product Marketing Company, Inc.**  
2226 E. 117th Street  
Burnsville, MN 55337  
Larry Kramer  
(612) 895-0192

**MAXXUS, Inc.**  
140 Second Street, Suite 603  
San Francisco, CA 94105  
John Fountain  
(415) 243-9690

**Perwill Incorporated**  
5053 La Mart Drive, Suite 101  
Riverside, CA 92507  
Joan Nolan  
(714) 683-7920

**Piedmont Systems, Inc.**  
4400 Silas Creek Parkway, Suite 300  
Winston-Salem, NC 27104  
Chuck Cloer  
(919) 760-3620

**RMS, Inc.**  
17187 N. Laurel Park Drive, Suite 204  
Livonia, MI 48152  
John Bennett  
(313) 462-1200

**St. Paul Software**  
**754 Transfer Road**  
**St. Paul, MN 55114**  
**Sharon Roland**  
**(612) 641-0963**

**Sterling Software, ORDERNET Services Division**  
**P. O. Box 7160**  
**4600 Lakehurst Court**  
**Dublin, OH 43017**  
**Doug Stewart**  
**(614) 793-7000**

**Supply Tech, Inc.**  
**27784 Franklin Road**  
**Southfield, MI 48034**  
**Wendell Holladay**  
**(313) 357-3430**

**Synergistic Systems, Inc.**  
**442 North 3rd Street**  
**Neptune Beach, FL 32233**  
**Ron Meison**  
**(904) 249-0201**



## **Minicomputer Software Vendors**

**ACS Network Systems  
1000 Burnett Avenue  
Concord, CA 94520  
Michael Nelson  
(415) 602-2000**

**Advantage Systems, Inc.  
30680 Montpelier Drive, Suite 350  
Madison Heights, MI 48071  
David Williams  
(313) 588-3480**

**American Business Computer  
1968 Green Road  
P. O. Box 305  
Ann Arbor, MI 48106  
Anne Hurtubise  
(313) 930-7840**

**Birmingham Computer Group, Inc.  
30850 Telegraph Road, Suite 250  
Birmingham, MI 48010  
Chuck Townsend  
(313) 540-0640**

**Control Data Corporation  
14725 Detroit Avenue  
Lakewood, OH 44107  
Phil Kimble  
(919) 854-4563  
Jim Townes  
(703) 998-1870**

**Digital Equipment Corporation  
146 Main Street  
Maynard, MA 01754  
Craig Mitchell  
(603) 884-0753**

**DNS Associates, Inc.**  
**One Militia Drive, Suite B1**  
**Lexington, MA 02173**  
**Hugh Stewart**  
**(617) 862-8569**

**EDI, Inc.**  
**19630 Club House Road**  
**Gaithersburg, MD 20879**  
**Ralph Notto**  
**(301) 670-0811**

**EDI Solutions, Inc.**  
**7760 France Avenue South, Suite 1140**  
**Minneapolis, MN 55435**  
**Jeff Kessler**  
**(612) 831-9000**

**Electronic Data Systems**  
**800 Tower Drive, 2nd Floor**  
**Troy, MI 48007-7019**  
**Ellen Lux**  
**(800) 365-8232**

**International Business Machines**  
**3405 West Buffalo Avenue**  
**Mail Drop S405A**  
**Tampa, FL 33630**  
**Mike McElroy**  
**(813) 878-4118**

**LEK Product Marketing Company, Inc.**  
**2226 E. 117th Street**  
**Burnsville, MN 55337**  
**Larry Kramer**  
**(612) 895-0192**

**MPACT EDI Systems, Inc.**  
**17197 North Laurel Park Drive**  
**Livonia, MI 48152**  
**Skip Krassa**  
**(313) 462-2244**

**Perwill Incorporated**  
5053 La Mart Drive, Suite 101  
Riverside, CA 92507  
Joan Nolan  
(714) 683-7920

**Piedmont Systems, Inc.**  
4400 Silas Creek Parkway, Suite 300  
Winston-Salem, NC 27104  
Chuck Cloer  
(919) 760-3620

**Radley Business Computers, Inc.**  
23077 Greenfield Road  
Southfield, MI 48075  
Will Soutar  
(800) 334-9934  
(313) 559-6858

**RMS, Inc.**  
17187 N. Laurel Park Drive, Suite 204  
Livonia, MI 48152  
John Bennett  
(313) 462-1200

**St. Paul Software**  
754 Transfer Road  
St. Paul, MN 55114  
Sharon Roland  
(612) 641-0963

**Sterling Software, ORDERNET Services Division**  
P. O. Box 7160  
4600 Lakehurst Court  
Dublin, OH 43017  
Doug Stewart  
(614) 793-7000

**Wright Systems, Inc.**  
14492 Sheldon Road, Suite 300  
Plymouth, MI 48170  
Dick Dressell  
(800) 234-7253  
(313) 459-7760





## **Mainframe Software Vendors**

**American Business Computer**  
1968 Green Road  
P. O. Box 305  
Ann Arbor, MI 48106  
Anne Hurtubise  
(313) 930-7840

**Control Data Corporation**  
14725 Detroit Avenue  
Lakewood, OH 44107  
Phil Kimble  
(919) 854-4563  
Jim Townes  
(703) 998-1870

**EDI Solutions, Inc.**  
7760 France Avenue South, Suite 1140  
Minneapolis, MN 55435  
Jeff Kessler  
(612) 831-9000

**General Electric Information Services**  
401 North Washington Street  
Rockville, MD 20850  
Dick Donohoe  
James Motyka  
(301) 340-4000

**International Business Machines**  
3405 West Buffalo Avenue  
Mail Drop S405A  
Tampa, FL 33630  
Mike McElroy  
(813) 878-4118

**Perwill Incorporated**  
5053 La Mart Drive, Suite 101  
Riverside, CA 92507  
Joan Nolan  
(714) 683-7920

St. Paul Software  
754 Transfer Road  
St. Paul, MN 55114  
Sharon Roland  
(612) 641-0963

Sterling Software, ORDERNET Services Division  
P. O. Box 7160  
4600 Lakehurst Court  
Dublin, OH 43017  
Doug Stewart  
(614) 793-7000

Supply Tech, Inc.  
27784 Franklin Road  
Southfield, MI 48034  
Wendell Holladay  
(313) 357-3430

TSI International  
45 Danbury Road  
P. O. Box 840  
Wilton, CT 06897-0840  
Meg Murdock  
(203) 761-8600

**TABLE A-1**  
**VENDORS NOT INCLUDED IN GUIDE**

| Company   | Contact                                       | Reason  |
|---|---|---|
| AT&T<br>55 Corporate Drive<br>Bridgewater, NJ 08807-6991  | Laurie Mosca<br>(201) 658-6182                | Remarkets EDI translation software products developed by ACS Network Systems, Inc.; EDI, Inc.; RMS, Inc.; Supply Tech, Inc.; and The APL Group, Inc.  |
| Bakertech Systems, Inc.<br>7901 Flying Cloud Drive<br>Suite 129<br>Eden Prairie, MN 55344               | Chuck Leininger<br>(612) 942-0638             | Remarkets Wright System's, Inc., EDI translation software package, "Wright EDI."  |
| Base 2 Corporation<br>707 Plaza 8, Suite 201<br>Sheboygan, WI 53081                                     | Dave Price<br>Paul Gutelius<br>(414) 457-6283 | Product has been developed exclusively for automotive industry suppliers.   |
| Comprehensive Technologies International, Inc.<br>14500 Avion Parkway, Suite 250<br>Chantilly, VA 22021 | Dean Hawkes<br>(703) 263-1000                 | Product has been developed exclusively for health care industry.  |
| Computer Power, Inc.<br>P. O. Box 5568<br>Florence, SC 29502  | Jim Curley<br>(803) 667-0601                  | Requested to be excluded; product is primarily used by hospitals, industry, and electronics.  |
| Dun & Bradstreet Software<br>3445 Peachtree Road, Northeast<br>Atlanta, GA 30326                        | Frank Buchheit<br>(404) 239-3411              | Provides business applications that support EDI; EDI translator may only be purchased as part of application. Management Science America, Inc., merged with McCormick and Dodge to form D&B Software. |
| Fritz Companies, Inc.<br>P. O. Box 66215<br>AMF O'Hare International Airport<br>Chicago, IL 60666       | John Fitzgerald<br>(708) 616-5600             | Product has been developed exclusively for import and export companies.   |
| Future Three Software, Inc.<br>33031 Schoolcraft Road<br>Livonia, MI 48150                              | Sarah Eatherly<br>(313) 261-5609              | Product has been developed exclusively for the automotive industry.   |

**TABLE A-1**

**VENDORS NOT INCLUDED IN GUIDE (Continued)**

| Company   | Contact   | Reason   |
|---|---|--|
| <p><b>Genzlinger Associates, Inc.</b><br/>Two Northfield Plaza, Suite 212<br/>5700 Crooks Road<br/>Troy, MI 48098</p> | <p><b>Karen Strichartz</b><br/>(313) 879-7070</p> | <p>Product has been developed exclusively for automotive and related industries.</p>   |
| <p><b>Innovative Computing Corporation</b><br/>4411 Highline Boulevard<br/>Oklahoma City, OK 73147</p>                | <p><b>Doug Madden</b><br/>(405) 949-9070</p>      | <p>Product is industry specific; translator can only be purchased as part of a trucking and transportation software package.</p>   |
| <p><b>Interchange Systems, Inc.</b><br/>1620 Massachusetts Avenue<br/>Lexington, MA 02173</p>                         | <p><b>John Ladner</b><br/>(617) 862-0010</p>      | <p>Product is application specific; software is used to electronically move payments between banks and their trading partners.</p> |
| <p><b>LDJ Electronics, Inc.</b><br/>2200 Stephenson Highway<br/>P. O. Box 219<br/>Troy, MI 48099</p>                  | <p><b>N/A</b><br/>(313) 528-2202</p>              | <p>Product has been developed primarily for the automotive industry.</p>   |
| <p><b>LEXEL Corporation</b><br/>571 Union Avenue<br/>New Windsor, NY 12550</p>  | <p><b>Sheldon Langer</b><br/>(914) 561-4286</p>   | <p>Remarkets EDI translation software products developed by ACS Network Systems; Sterling Software; and Supply Tech, Inc.</p>      |
| <p><b>Logistics Systems</b><br/>(formerly Infotronic Systems)<br/>8300 Logistics Drive<br/>Zeeland, MI 49464</p>      | <p><b>George Smeenge</b><br/>(616) 772-0028</p>   | <p>Product is industry specific; translation software can only be purchased as part of a warehousing software package.</p>         |
| <p><b>Management Computer Systems</b><br/>123 North Union Avenue<br/>Cranford, NJ 07016</p>                           | <p><b>David Walsh</b><br/>(201) 272-3080</p>      | <p>Product has been developed exclusively for the food industry.</p>   |
| <p><b>Manufacturing Systems, Inc.</b><br/>P. O. Box 868<br/>6920 Riverwood Drive<br/>Knoxville, TN 37901</p>          | <p><b>Walter Williams</b><br/>(615) 637-4147</p>  | <p>Requested to be excluded; company only works with manufacturing companies located in East Tennessee.</p>                        |

**TABLE A-1**

**VENDORS NOT INCLUDED IN GUIDE (Continued)**

| Company   | Contact   | Reason  |
|---|---|---|
| <p>National Systems Corporation<br/>51 Madison Avenue<br/>22nd Floor<br/>New York, NY 10010</p>       | <p>Michael Gibbons<br/>(212) 679-6060</p>             | <p>Product has been developed exclusively for the banking and finance industries.</p>   |
| <p>Paper Free Systems, Inc.<br/>733 15th Street, Northwest<br/>Suite 700<br/>Washington, DC 20005</p> | <p>Dan Kazzazz<br/>(202) 628-6211</p>                 | <p>Provides EDI integration services; does not offer a translation software package for purchase.</p>   |
| <p>PLP Systems, Inc.<br/>631 Doe Drive<br/>Murfreesboro, TN 37130</p>                                 | <p>Bill Parrott<br/>(615) 896-0081</p>                | <p>Remarkets EDI translation software products developed by ACS Network Systems and Supply Tech, Inc.; also develops custom EDI software.</p> |
| <p>Prophet 21<br/>19 West College Avenue<br/>Yardley, PA 19067</p>                                    | <p>Debbie Dickerson<br/>(215) 493-8900</p>            | <p>Product is a turnkey system developed primarily for industrial distribution users.</p>   |
| <p>RAILINC Corporation<br/>50 F Street, Northwest<br/>Washington, DC 20001</p>                        | <p>Joe Ready<br/>(202) 639-5580</p>                   | <p>Remarkets Data Dispatch Corporation's translation software package, "EDI/SYNAPSE."</p>   |
| <p>Software Associates<br/>39 East Main Street<br/>Little Falls, NJ 07424</p>                         | <p>Joe Wells<br/>(201) 812-0900</p>                   | <p>Remarkets Sterling Software's EDI translation software packages; also performs EDI integration and customization services.</p>             |
| <p>TanData Corporation<br/>700 TanData Plaza<br/>1400 South Boston Avenue<br/>Tulsa, OK 74119</p>     | <p>Daniel Biby<br/>(918) 585-1907</p>                 | <p>Product is industry specific; translation software can only be purchased as part of a parcel manifest system.</p>                          |
| <p>Technalysis Corporation<br/>6700 France Avenue<br/>Minneapolis, MN 55435</p>                       | <p>Jim Clark<br/>Gail Hildrent<br/>(612) 925-5900</p> | <p>Provides EDI system integration services; does not offer a translation software package for purchase.</p>                                  |

**TABLE A-1****VENDORS NOT INCLUDED IN GUIDE (Continued)**

| <b>Company</b>   | <b>Contact</b>                         | <b>Reason</b>   |
|--|--|---|
| <b>Txbase Systems, Inc.</b><br>20 Valleywood Drive, Suite 101<br>Markham, Ontario L3R6G1                       | <b>Ray Talwar</b><br>(416) 477-1238    | Product is industry specific; translator is sold as part of a repetitive manufacturing system on Unix platforms (translator is from Electronic Data Systems). |
| <b>Universal Software, Inc.</b><br>Marshfield Professional Center<br>1020 Plain Street<br>Marshfield, MA 02050 | <b>Norman Platt</b><br>(617) 837-5011  | Provides EDI communication software to EDI VANs for IBM DOS/VS(E) and MVS operating environments.   |
| <b>Vertical Systems, Inc.</b><br>2030 First Avenue, Suite 201<br>Seattle, WA 98101                             | <b>Bill Pickard</b><br>(206) 728-7111  | Remarkets Wright System's, Inc., EDI translation software package, "Wright EDI."  |
| <b>World Trade Services</b><br>P. O. Box 569<br>Beaverton, OR 97075  | <b>Mark Anderson</b><br>(800) 338-4333 | Product has been developed primarily for international trade management.  |

## **APPENDIX B**

### **VENDOR INFORMATION**

This appendix provides detailed information on the products offered by each of the EDI software vendors, including hardware operating environment, product pricing, and third-party networks directly accessed by the software.





## **ACS Network Systems**

**Address:** 1000 Burnett Avenue  
Concord, CA 94520

**Contact:** Michael Nelson

**Phone:** (415) 602-2000

**Product:** EDI/36  
EDI/38  
EDI/4XX

**Hardware/Operating System Environment:** IBM System 36, System 38, AS400

**EDI Standards/Transaction Sets Supported:** X12, TDCC, UCS, EDIFACT

### **Pricing:**

#### **Basic Package Cost:**

Includes one network communications module

EDI/36: \$5,700

EDI/38: \$9,000

EDI/4XX: \$7,000 – \$18,000

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** 12 percent of purchase price

**Maintenance Fee Includes:** Standards updates, software enhancements, telephone support

**Training Fee:** \$595; classes are scheduled monthly on the East Coast, Midwest, and West Coast.

**Additional Fees:** Additional network communications modules cost \$700 – \$1,000 depending on the computer used.

**Networks Directly Accessed:** GEIS; ORDERNET; IBM; Control Data; AT&T; Western Union; Kleinschmidt; TranSettlements; CompuServe; Harbinger; Agri Data; Ford; Chrysler; GM; Walmart; Sears; BT Tymnet

**Vendor Experience**

**Year Company Founded:** 1987 (parent company formed in 1976)

**Date Package First Available:** 1987

**EDI Professional Staff Resources**

**Technical Staff:** 42

**Hot Line:** 14

**Total:** 68

**Miscellaneous Information:** Toll-free telephone support; vendor is a division of Premenos Corporation.

**Programming Language Used by Package:** RPG

## **Advanced Communications Systems**

**Address:** 25054 Lorain Road  
North Olmsted, OH 44070

**Contact:** Dan Norris

**Phone:** (800) 223-5424

**Product:** ACSPCX12

**Hardware/Operating System Environment:** IBM compatible XT, AT, PS/2, with 10MB hard disk, 640K RAM, MS-DOS 3.0

**EDI Standards/Transaction Sets Supported:** TDCC, ALAG, X12, ANSI subsets

### **Pricing:**

#### **Basic Package Cost:**

\$1,650; (Transaction sets cost an additional \$350 for each trading partner.)

\$3,000; (Includes four trading partners and all transaction sets; \$350 for each additional trading partner.)

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** \$595

**Maintenance Fee Includes:** Software enhancements, standards updates, telephone support

**Training Fee:** On-site installation included in the purchase price for a limited area; must pay airfare for one instructor.

**Additional Fees:** Not available

**Networks Directly Accessed:** Control Data; GEIS; RAILINC; CompuServe; Ford; GM; Walmart; Service Merchandise; IBM; CTX; BT Tymnet

### **Vendor Experience**

**Year Company Founded:** 1985

**Date Package First Available:** 1987

**EDI Professional Staff Resources**

**Technical Staff: 6**

**Hot Line: 2**

**Total: 15**

**Miscellaneous Information: Revenue is derived exclusively from EDI services.**

**Programming Language Used by Package: COBOL**

**Advantage Systems, Inc.**

**Address:** 30680 Montpelier Drive, Suite 350  
Madison Heights, MI 48071

**Contact:** David Williams

**Phone:** (313) 588-3480

**Product:** EDI Advantage

**Hardware/Operating System Environment:** IBM System 36, 38, AS400

**EDI Standards/Transaction Sets Supported:** X12

**Pricing:**

**Basic Package Cost:**

Includes two transaction sets and source code

System 36: \$3,000

System 38: \$6,000

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** System 36 — \$500; System 38 — \$700

**Annual Maintenance Fee:** 15 percent of installed software price

**Maintenance Fee Includes:** Hot line, standards updates, software enhancements

**Training Fee:** None

**Additional Fees:** None

**Networks Directly Accessed:** Control Data, BT Tymnet

**Vendor Experience**

**Year Company Founded:** 1984

**Date Package First Available:** 1986

## **EDI Professional Staff Resources**

**Technical Staff: 3**

**Hot Line: 1**

**Total: 5**

**Miscellaneous Information:** Product was developed primarily for the automotive industry but is not restricted to that industry.

**Programming Language Used by Package:** System 36 – RPG II  
System 38, AS400 – RPG III

## **American Business Computer**

**Address:** 1968 Green Road  
P. O. Box 305  
Ann Arbor, MI 48106

**Contact:** Anne Hurtubise

**Phone:** (313) 930-7840

**Product:** EDE-PC (written for automotive industry)  
EDI-ExCel/PC  
EDI-ExCel/Unix  
EDI-Server (for distributed EDI systems)

### **Hardware/Operating System Environment:**

EDE-PC: IBM compatible XT, AT, PS/2, with DOS 2.0 or higher, 10MB hard disk, 512K RAM

EDI-ExCel/PC: IBM compatible PC

EDI-ExCel/Unix: AT&T 3B family; NCR Tower (Unix or SCO Xenix); HP9000; Gould-UX; IBM RS/6000

EDI-Server: AT&T 3B family; NCR Tower; HP9000; IBM RS/6000

**EDI Standards/Transaction Sets Supported:** X12, TDCC, WINS, UCS

### **Pricing:**

#### **Basic Package Cost:**

|                 |          |   |           |
|-----------------|----------|---|-----------|
| EDE-PC:         | \$2,000  | — | \$5,000   |
| EDI-ExCel/PC:   | \$3,000  | — | \$7,000   |
| EDI-ExCel/Unix: | \$5,000  | — | \$15,000  |
| EDI-Server:     | \$15,000 | — | \$100,000 |

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** EDE-PC, EDI-ExCel, and EDI-Server — 20 percent of retail software cost

**Maintenance Fee Includes:** Hot line, standards updates, software enhancements

**Training Fee:** Included if at vendor's location; if at user's location, travel and living expenses.

**Additional Fees:** Not available

**Networks Directly Accessed:** GEIS; CompuServe; Control Data; IBM; Kleinschmidt; ORDERNET; Telenet; Chrysler; Ford; GM; AT&T; BT Tymnet

**Vendor Experience**

**Year Company Founded:** 1976

**Date Package First Available:** EDE-PC: 1986; EDI-ExCel: 1989; EDI-Server: 1990

**EDI Professional Staff Resources**

**Technical Staff:** 10 plus 5 contractor personnel

**Hot Line:** 6

**Total:** 40

**Miscellaneous Information:** Vendor is owned by TSM Computing Group, a subsidiary of Thomas Monaghan, Inc.

EDE-PC is sold as a "solution" product for the automotive industry; EDI-ExCel and EDI-Server are not industry specific.

**Programming Language Used by Package:**

EDE-PC: Available in both BASIC and C

EDI-ExCel: C

EDI-Server: C and Informix database



**American Custom Software, Inc.**

**Address:** 2420 Fisk Road  
Cookeville, TN 38501

**Contact:** Robert Sparkman

**Phone:** (615) 537-6516

**Product:** BPT (Business Partner Translator)

**Hardware/Operating System Environment:** IBM compatible PC, XT, AT, PS/2, with 10MB hard disk, 640K RAM, MS-DOS 3.0 (will operate on Novell Network)

**EDI Standards/Transaction Sets Supported:** X12, ALAG, VICS, UCS, TDCC, WINS, GM, Ford

**Pricing:**

**Basic Package Cost:**

One trading partner: \$1,995

Multiple trading partners (includes setup for 1<sup>st</sup> 10 partners): \$2,995

After 10<sup>th</sup> partner: \$295 per transaction set

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** See above

**Annual Maintenance Fee:** 15 percent of software cost

**Maintenance Fee Includes:** EDI help desk, standards updates, software enhancements

**Training Fee:** On site: \$450 per day plus expenses

**Additional Fees:** None

**Networks Directly Accessed:** GEIS; IBM; Control Data; Kleinschmidt; BT Tymnet; RAILINC

**Vendor Experience**

**Year Company Founded:** 1984

**Date Package First Available:** 1988

**EDI Professional Staff Resources**

**Technical Staff: 3**

**Hot Line: 3**

**Total: 10**

**Miscellaneous Information:** First wrote EDI translation software for the automobile industry in 1984.

**Programming Language Used by Package:** BASIC, C, Assembly

**The APL Group, Inc.**

**Address:** 644 Danbury Road  
Wilton, CT 06897

**Contact:** Rick Samuelson

**Phone:** (203) 762-3933

**Product:** QualEDI

**Hardware/Operating System Environment:** IBM compatible XT, AT, PS/2 with MS-DOS 3.1 or higher

**EDI Standards/Transaction Sets Supported:** X12, TDCC, UCS, VICS, WINS, EDIFACT

**Pricing:**

**Basic Package Cost:**

Single trading partner: \$1,650

Stand-alone: \$2,700

Front-end: \$3,200

(Vendor offers volume discounts)

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:**

Single trading partner: \$450

Stand-alone: \$550

Front-end: \$700

**Maintenance Fee Includes:** Hot line, software enhancements, standards updates, and all transaction sets currently used as well as those requested in the future

**Training Fee:** On site: \$500 per day plus travel and expenses

**Additional Fees:** Not available

**Networks Directly Accessed:** BT Tymnet; ORDERNET; Kleinschmidt; Western Union; GEIS; CNCP; CompuServe; Control Data; TranSettlements; RAILINC; Ford; AT&T; Telecom Canada; IBM

**Vendor Experience**

**Year Company Founded: 1983**

**Date Package First Available: 1984**

**EDI Professional Staff Resources**

**Technical Staff: 5**

**Hot Line: 4**

**Total: 17**

**Miscellaneous Information:** Software assumes that only one communications network will be connected to the computer. If multiple network connections are desired, additional directories must be created on the system as a "workaround."

**ANSI experience is primarily in the purchasing functions.**

**Programming Language Used by Package: APL**

## **Baggerly & Associates**

**Address:** 1420 N. Claremont Boulevard, Suite 209C  
Claremont, CA 91711

**Contact:** Elizabeth Nash

**Phone:** (714) 625-7917

**Product:** \*EDI\*FOCUS\*

**Hardware/Operating System Environment:** IBM compatible XT, AT, PS/2 with 20MB hard disk, 640K RAM, MS-DOS 3.0

**EDI Standards/Transaction Sets Supported:** X12, TDCC, VICS, WINS, UCS

### **Pricing:**

#### **Basic Package Cost:**

**\$945 —** Translator and data input screens only; applications system interface and communications software are not included.

**\$1,500 —** Interface to applications system (flat file) and host interface (permits computer to operate as a front-end computer).

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** \$150 for \*EDI\*FOCUS\*; \$300 for interface module

**Maintenance Fee Includes:** Standards updates, software enhancements, telephone support for software problem resolution

**Training Fee:** Varies depending on the extent of training required.

**Additional Fees:** Telephone support consultation; call for hourly rate.

**Networks Directly Accessed:** Western Union; GEIS; IBM; BT Tymnet

### **Vendor Experience**

**Year Company Founded:** 1983

**Date Package First Available:** 1988

**EDI Professional Staff Resources**

**Technical Staff: 8**

**Hot Line: 3**

**Total: 14**

**Miscellaneous Information:** Vendor can also provide custom application development and implementation support.

**Programming Language Used by Package: C**

**Bell Atlantic Network Services, Inc.**

**Address:** 1310 N. Courthouse Road, 7th Floor  
Arlington, VA 22201

**Contact:** Marjorie MacArthur

**Phone:** (703) 974-3919

**Product:** IntelliTrade  
IntelliTrade Plus

**Hardware/Operating System Environment:** IBM compatible AT or PS/2 with MS-DOS 2.0 or higher

**EDI Standards/Transaction Sets Supported:** X12

**Pricing:**

**Basic Package Cost:**

\$799 if purchased at trading partner seminar; otherwise \$999

**Additional Charge Per EDI Standard:** Not available

**Additional Charge Per Transaction Set:** Not available

**Annual Maintenance Fee:** \$126

**Maintenance Fee Includes:** Software enhancements, standards updates

**Training Fee:** None

**Additional Fees:** None

**Networks Directly Accessed:** Bell Atlantic (IntelliTrade EDI); hot line is included as part of the network mailbox fee.

**Vendor Experience**

**Year Company Founded:** 1984

**Date Package First Available:** 4th quarter 1990

## **EDI Professional Staff Resources**

**Technical Staff: 1**

**Hot Line: 4**

**Total: 5**

**Miscellaneous Information:** Bell Atlantic has an agreement with Harbinger\*EDI Services to use Harbinger's InTouch\*EDI products as the basis for the IntelliTrade products. Bell Atlantic has modified Harbinger's products to access the IntelliTrade EDI network.

**Programming Language Used by Package: C**



**Birmingham Computer Group, Inc.**

**Address:** 30850 Telegraph Road, Suite 250  
Birmingham, MI 48010

**Contact:** Chuck Townsend

**Phone:** (313) 540-0640

**Product:** DTS: communications and translation software module with data mapping

**Hardware/Operating System Environment:** HP3000 (MPE); DEC VAX (VMS); IBM compatible XT, AT, PS/2, with MS-DOS 2.1 or higher, 10MB hard disk, 512K RAM (also operates with Novell Network and other LANs)

**EDI Standards/Transaction Sets Supported:** X12, TDCC, EDIFACT, Kmart

**Pricing:**

**Basic Package Cost:**

Microcomputer: \$1,500 – \$8,200, includes one trading partner and DTS; \$400 for each additional trading partner

HP3000 and VAX: \$11,000 – \$35,000, includes one trading partner and DTS; \$1,500 for each additional trading partner

**Additional Charge Per EDI Standard:** Microcomputer: \$1,900; HP3000, VAX: \$4,500

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** 12 percent of purchase price

**Maintenance Fee Includes:** Standards updates, hot-line support, new software releases

**Training Fee:** \$60 per hour at vendor location; on site, travel and living expenses are extra.

**Additional Fees:** Source code available for \$15,000

**Networks Directly Accessed:** IBM; GEIS; Control Data; BT Tymnet

**Vendor Experience**

**Year Company Founded:** 1984

**Date Package First Available:** 1985

**EDI Professional Staff Resources**

**Technical Staff:** 6

**Hot Line:** 3

**Total:** 14

**Miscellaneous Information:** Other services available include manufacturing materials requirement planning software systems, bar coding systems, and consulting.

**Programming Language Used by Package:** Mostly COBOL

**Lloyd Bush, Inc.**

**Address:** 156 William Street  
New York, NY 10038

**Contact:** Marcy McKinley

**Phone:** (212) 962-4004

**Product:** X-Change

**Hardware/Operating System Environment:** IBM compatible XT, AT, PS/2 with MS-DOS 3.0, 10MB hard disk, 640K RAM

**EDI Standards/Transaction Sets Supported:** X12, TDCC, AIAG, TCIF, VICS

**Pricing:**

**Basic Package Cost:** \$895 (\$495 if 25 packages or more are purchased)

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** None

**Maintenance Fee Includes:** Software support

**Training Fee:** No training required

**Additional Fees:** Optional software upgrades available for \$75-\$100 (standards updates are included)

**Networks Directly Accessed:** BT Tymnet; Western Union; GEIS; Control Data; RAILINC; ORDERNET

**Vendor Experience**

**Year Company Founded:** 1971

**Date Package First Available:** 1985

**EDI Professional Staff Resources**

**Technical Staff:** 3 (1 is also in technical support)

**Hot Line:** 4

**Total:** 6

**Miscellaneous Information:** Vendor also provides financial consulting for municipal bonds, timesharing, and other products.

**Programming Language Used by Package:** C

**CAN/AM Tech Inc.**

**Address:** 205 South Main Street  
Slippery Rock, PA 16057

**Contact:** Norm Morrison  
Dave Scheele

**Phone:** (412) 794-5884

**Product:** E-Z Order

**Hardware/Operating System Environment:** IBM compatible XT, AT, PS/2 with  
MS-DOS 3.0, 20MB hard disk, 512K RAM

**EDI Standards/Transaction Sets Supported:** X12, TDCC, EDIFACT

**Pricing:**

**Basic Package Cost:** \$1,495 (includes communications)

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** \$495

**Maintenance Fee Includes:** Upgrades to standards, software enhancements, hot  
line, reduced rate on any additional transaction sets required in the future

**Training Fee:** None

**Additional Fees:** \$500 per day for customized data entry screens, reports, and  
flat file interfaces

**Networks Directly Accessed:** GEIS, Infonet (Additional networks can be accessed  
upon request.)

**Vendor Experience**

**Year Company Founded:** 1985

**Date Package First Available:** 1987

**EDI Professional Staff Resources**

**Technical Staff:** 2 plus contract programmers

**Hot Line:** Staffed by Epson Canada

**Total:** 4

**Miscellaneous Information:** Vendor has entered into a distribution and joint support agreement with Epson Canada, MetCan, and Emerging Technologies USA. Hot line support is accessed via Epson's 800 number support network.

**Programming Language Used by Package:** Turbo Pascal, C

## **Control Data Corporation**

**Address:** 14725 Detroit Avenue  
Lakewood, OH 44107

**Contact:** Phil Kimble  
Jim Townes

**Phone:** (919) 854-4563  
(703) 998-1870

**Product:** REDI-MICRO – microcomputers  
REDI-EXCHANGE – mainframe MVS operating system; supports only X12 standards  
REDI-TRANSLATOR – all mainframe platforms including MVS

**Hardware/Operating System Environment:** IBM mainframe (MVS, DOS, DOS/VSE); DEC (Microvax, 6XXX, 8XXX, VMS); IBM compatible PC, XT, AT, 386 with hard disk, 512K RAM, MS-DOS 2.11 or higher; HP (Micro, 3000, Series I-II, 3X-7X, 9XX)

**EDI Standards/Transaction Sets Supported:** AIAG, X12, WINS, UCS, TDCC, VICS, EDIFACT

### **Pricing:**

#### **Basic Package Cost:**

REDI-MICRO: \$700 includes communications software

REDI-EXCHANGE: \$7,500

REDI-TRANSLATOR: DEC: \$12,000 – \$22,500; HP: \$12,000 – \$22,500;

IBM MVS: \$22,500 – \$27,500

(Vendor offers volume discounts.)

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** REDI-MICRO – transaction sets are sold as a “family”; each family is \$250 at order time, and \$500 thereafter. REDI-EXCHANGE and REDI-TRANSLATOR – all transaction sets are included.

**Annual Maintenance Fee:** First 12 months are free for all products.

REDI-MICRO: currently free; a fee may be charged beginning the fourth quarter of 1990.

REDI-EXCHANGE: 15 percent

**REDI-TRANSLATOR: DEC and HP: \$1,600 – \$3,200**

**REDI-TRANSLATOR: IBM: \$3,200 – \$3,700**

**Maintenance Fee Includes:** Standards updates, software enhancements, hot line, 2 days of installation support for REDI-TRANSLATOR

**Training Fee:** \$300 per person at a selected site; if on a consulting basis, \$1,200 per day with travel and living expenses additional

**Additional Fees:** Not available

**Networks Directly Accessed:** GEIS; Kleinschmidt; ORDERNET; Harbinger; Control Data; Martin Marietta; TranSettlements; IBM; BT Tymnet; Western Union

### **Vendor Experience**

**Year Company Founded:** 1957

**Date Package First Available:** 1985

### **EDI Professional Staff Resources**

**Technical Staff:** Not provided

**Hot Line:** 20

**Total:** Not provided

### **Miscellaneous Information:**

- Toll-free telephone support.
- Only the X12 standard is distributed with REDI-MICRO and REDI-EXCHANGE; other standards are not available. If TDCC transactions are required by a trading partner, the VAN must convert the transaction set from X12 to the appropriate TDCC-formatted transaction set.
- REDI-TRANSLATOR sold with all supported EDI standards.
- REDI-LINK communications software may be purchased for \$10,000. It is network independent and allows a mainframe to connect to any other VAN. (User can also write software or purchase communications software from another vendor.)
- Vendor has several other software modules available that can be used to print EDI documents or to communicate with a network. Vendor can provide details and prices.

### **Programming Language Used by Package:**

**REDI-EXCHANGE and REDI-MICRO:** C

**REDI-TRANSLATOR:** COBOL 74



## **Data Dispatch Corporation**

**Address:** 2000 Corporate Ridge, Suite 910  
McLean, VA 22102

**Contact:** Fred Cuthbertson

**Phone:** (703) 749-3636

**Product:** EDI/SYNAPSE

**Hardware/Operating System Environment:** IBM compatible XT, AT, PS/2 with MS-DOS 3.0, 10MB hard disk, 640K RAM

**EDI Standards/Transaction Sets Supported:** X12, TDCC, EDIFACT

### **Pricing:**

**Basic Package Cost:** Determined by distributor

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** Determined by distributor

**Maintenance Fee Includes:** Updates to standards, software enhancements, telephone support

**Training Fee:** Determined by distributor

**Additional Fees:** None

**Networks Directly Accessed:** RAILINC (uses a proprietary interchange envelope header); GEIS; IBM; ORDERNET

### **Vendor Experience**

**Year Company Founded:** 1983

**Date Package First Available:** 1986

**EDI Professional Staff Resources**

**Technical Staff: 10**

**Hot Line: 2**

**Total: 20**

**Miscellaneous Information:** Sold exclusively through distributors, including RAILINC Corporation.

**Programming Language Used by Package: C**

## **Digital Equipment Corporation**

**Address:** 146 Main Street  
Maynard, MA 01754

**Contact:** Craig Mitchell

**Phone:** (603) 884-0753

**Product:** DEC/EDI

**Hardware/Operating System Environment:** DEC VAX (VMS)

**EDI Standards/Transaction Sets Supported:** X12, TDCC, EDIFACT, VICS, WINS

### **Pricing:**

**Basic Package Cost:** \$11,356 – \$41,642, depending on processor size

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** Fee varies based on service and warranty contract; average is 15 percent of software purchase price.

**Maintenance Fee Includes:** Depends on service and warranty contract purchased.

**Training Fee:** Varies

**Additional Fees:** None

**Networks Directly Accessed:** GEIS; BT Tymnet; AT&T; Harbinger

### **Vendor Experience**

**Year Company Founded:** 1957

**Date Package First Available:** 1990

### **EDI Professional Staff Resources**

**Technical Staff:** Not available

**Hot Line:** Not available

**Total:** Not available

**Miscellaneous Information:** Vendor provides some consulting services.

**Programming Language Used by Package:** C

**DIGIT Software, Inc.**

**Address:** P. O. Box 1425  
Silver Spring, MD 20902

**Contact:** Todd Ross

**Phone:** (301) 593-8952

**Product:** MacEDI

**Hardware/Operating System Environment:** Apple MacIntosh

**EDI Standards/Transaction Sets Supported:** X12, TDCC, WINS, VICS, UCS

**Pricing:**

**Basic Package Cost:** \$1,950 for transaction manager; data mapper available for additional fee

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** \$150 per data map; no charge if the data mapper is purchased.

**Annual Maintenance Fee:** \$400

**Maintenance Fee Includes:** Software enhancements, hot line, standards updates, data map updates

**Training Fee:** Not available

**Additional Fees:** Communications software may be purchased.

**Networks Directly Accessed:** ORDERNET; IBM; GEIS; Control Data; RAILINC

**Vendor Experience**

**Year Company Founded:** 1988

**Date Package First Available:** 1988

**EDI Professional Staff Resources**

**Technical Staff: 3**

**Hot Line: 3**

**Total: 3**

**Miscellaneous Information:**

**Programming Language Used by Package: C**

**DNS Associates, Inc.**

**Address:** One Militia Drive, Suite B1  
Lexington, MA 02173

**Contact:** Hugh Stewart

**Phone:** (617) 862-8569

**Product:** EDI/Entry – a system without an application interface  
EDI/Edge

**Hardware/Operating System Environment:** Any MS-DOS computer with 20MB hard disk, 640K RAM, MS-DOS 2.0; 386 computers with Xenix or Unix; DEC VAX (VMS or Ultrix); Apollo; Gould. (Company will port translator to any Unix platform.)

**EDI Standards/Transaction Sets Supported:** X12, TDCC, WINS, UCS, EDIFACT

**Pricing:**

**Basic Package Cost:**

EDI/Entry: \$1,500

EDI/Edge: \$2,500

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** \$500

**Maintenance Fee Includes:** Toll-free hot line, standards updates, software enhancements

**Training Fee:** \$500 for 2-day class

**Additional Fees:** Not available

**Networks Directly Accessed:** BT Tymnet; GEIS; CompuServe; Kleinschmidt; Control Data; IBM; Western Union; AT&T; ORDERNET

**Vendor Experience**

**Year Company Founded:** 1979

**Date Package First Available:** 1986

**EDI Professional Staff Resources**

**Technical Staff: 11**

**Hot Line: 3**

**Total: 14**

**Miscellaneous Information:** Vendor can provide consulting and implementation services.

**Programming Language Used by Package: C**



## **Dynamic Business Systems**

**Address:** 24600 Center Ridge Road  
Westlake, OH 44145

**Contact:** Dennis Chatfield

**Phone:** (216) 398-6088

**Product:** Trans-Sync

**Hardware/Operating System Environment:** IBM compatible PC, XT, AT, 386 with MS-DOS 3.2.; 386 is recommended. (Also supports Novell network.)

**EDI Standards/Transaction Sets Supported:** X12, TDCC

### **Pricing:**

**Basic Package Cost:** \$5,000 (includes modem)

**Additional Charge Per EDI Standard:** None; maintained by user

**Additional Charge Per Transaction Set:** None; maintained by user

**Annual Maintenance Fee:** \$600

**Maintenance Fee Includes:** Software enhancements, hot line

**Training Fee:** \$75 per hour

**Additional Fees:** \$75 per hour

**Networks Directly Accessed:** GEIS; Sears; BT Tymnet; RAILINC

### **Vendor Experience**

**Year Company Founded:** 1985

**Date Package First Available:** 1986

### **EDI Professional Staff Resources**

**Technical Staff:** 3

**Hot Line:** 2

**Total:** 5

**Miscellaneous Information:**

**Programming Language Used by Package: C**

**EDI, Inc.**

**Address:** 19630 Club House Road  
Gaithersburg, MD 20879

**Contact:** Ralph Notto

**Phone:** (301) 670-0811

**Product:** TELINK

**Hardware/Operating System Environment:** IBM compatible XT, AT, PS/2, with minimum 20MB hard disk, 640K RAM, MS-DOS 3.1; Tandem; Unisys 6000 Series

**EDI Standards/Transaction Sets Supported:** X12, TDCC, UCS, WINS

**Pricing:**

**Basic Package Cost:**

Microcomputer: \$2,600

Tandem: \$37,000, includes 12 transaction sets and 1-year maintenance

Unisys: \$11,500, includes 10 transaction sets and 1-year maintenance

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** Microcomputer: \$300 (quantity discounts available); Tandem: \$500; Unisys: \$500

**Annual Maintenance Fee:** Microcomputer: \$750; Tandem and Unisys: 15 percent of software cost

**Maintenance Fee Includes:** Standards updates, hot line

**Training Fee:** Purchase price includes 1½ days at vendor location for PC-based package; 2 days for Tandem- or Unisys-based packages.

**Additional Fees:** Many optional software modules are available; call vendor for prices.

**Networks Directly Accessed:** GEIS; ORDERNET; Kleinschmidt; BT Tymnet; RAILINC; Control Data; Telecom Canada; TranSettlements; Western Union; IBM; CompuServe; Sears; AT&T

**Vendor Experience**

**Year Company Founded:** 1982

**Date Package First Available:** 1984

**EDI Professional Staff Resources**

**Technical Staff:** 14

**Hot Line:** 3

**Total:** 35

**Miscellaneous Information:** Vendor also markets an EFT product, "MONEYLINK", and provides consulting services.

**Programming Language Used by Package:**

**Microcomputer:** FORTRAN 77

**Tandem:** FORTRAN 77 and C

**Unisys:** FORTRAN 77 and C

## **EDI Solutions, Inc.**

**Address:** 7760 France Avenue South, Suite 1140  
Minneapolis, MN 55435

**Contact:** Jeff Kessler

**Phone:** (612) 831-9000

**Product:** EDItran — Translation management system  
EDImap — User-definable application interface system

**Hardware/Operating System Environment:** IBM MVS (DOS/VSE); DEC VAX (VMS); HP (MPE/V, MPE/XL); Stratus (VOS)

**EDI Standards/Transaction Sets Supported:** X12, TDCC, EDIFACT

### **Pricing:**

#### **Basic Package Cost:**

Price is based on hardware configuration and includes source code.

EDItran: \$12,000 — \$22,500

EDImap: \$2,000 — \$5,000

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** First year is free. EDItran: \$1,600 — \$3,700;

EDImap: \$300 — \$675

**Maintenance Fee Includes:** Hot line, software enhancements, standards updates

**Training Fee:** 2 days of on-site installation are included in basic package cost.

**Additional Fees:** Quoted by project; \$95/hour base fee

**Networks Directly Accessed:** Software is network independent.

### **Vendor Experience**

**Year Company Founded:** 1986

**Date Package First Available:** 1985

**EDI Professional Staff Resources**

**Technical Staff: 10**

**Hot Line: 4**

**Total: 16**

**Miscellaneous Information:**

**Programming Language Used by Package: COBOL 74 and COBOL 85**

## **Electronic Data Systems**

**Address:** 800 Tower Drive, 2nd Floor  
Troy, MI 48007-7019

**Contact:** Ellen Lux

**Phone:** (800) 365-8232

**Product:** EDI\*ASSET (DOS)  
EDI\*EXPERT (Unix)

**Hardware/Operating System Environment:** IBM compatible PC, XT, AT, 386 with MS-DOS 3.1 or higher; Sun 3; Sun (SPARC); AT&T 3B2; Motorola Delta 5000; NCR Tower (Unix)

**EDI Standards/Transaction Sets Supported:** X12, TDCC

### **Pricing:**

#### **Basic Package Cost:**

EDI\*ASSET: \$2,500 plus \$600 for each *group of transaction sets*

EDI\*EXPERT: \$10,000 plus \$2,000 for each *group of transaction sets*

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** EDI\*ASSET: \$400; EDI\*EXPERT: \$1,000

**Maintenance Fee Includes:** Toll-free hot line, standards updates, software enhancements

**Training Fee:** Depends upon knowledge of user.

**Additional Fees:** None

**Networks Directly Accessed:** All major third-party networks; EDI\*EXPERT communications module costs \$1,000 for each network to be accessed.

### **Vendor Experience**

**Year Company Founded:** 1962

**Date Package First Available:** 1987 – DOS  
1990 – Unix

**EDI Professional Staff Resources**

**Technical Staff:** Not available

**Hot Line:** 20

**Total:** Not available

**Miscellaneous Information:** Vendor is a wholly-owned subsidiary of GM.

**Programming Language Used by Package:**

**EDI\*Asset:** C

**EDI\*Expert:** C



## **Foretell Corporation**

**Address:** 155 North Pfingsten Road, Suite 210  
Deerfield, IL 60015

**Contact:** Michael Fitch  
Lynne Pilsner

**Phone:** (708) 317-9000

**Product:** ESP II

**Hardware/Operating System Environment:** IBM compatible 286 or 386 with MS-DOS 3.3 or higher

**EDI Standards/Transaction Sets Supported:** X12, EDIFACT, VICS

### **Pricing:**

**Basic Package Cost:** \$2,300, includes a report writer; and purchase order, invoice, and functional acknowledgment transaction sets

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** \$75, or \$300 for all remaining X12 transaction sets

**Annual Maintenance Fee:** \$650

**Maintenance Fee Includes:** Standards updates, software enhancements, hot line

**Training Fee:** \$650 per person for 2 days at vendor's site

**Additional Fees:** None

**Networks Directly Accessed:** BT Tymnet; Control Data; GEIS; Sears; ORDERNET; IBM

### **Vendor Experience**

**Year Company Founded:** 1985

**Date Package First Available:** 1985

**EDI Professional Staff Resources**

**Technical Staff: 6**

**Hot Line: 6**

**Total: 20**

**Miscellaneous Information:** Peripheral equipment, bisync modems, and Windows 286 can be purchased.

**Programming Language Used by Package:** MicroSoft C

## **General Electric Information Services**

**Address:** 401 North Washington Street  
Rockville, MD 20850

**Contact:** Dick Donohoe  
James Motyka

**Phone:** (301) 340-4000

**Product:** EDI\*PC (accesses GE's network and other VANs)  
EDI\*T (communications software must be purchased to connect to the desired VAN)  
EDI\*Central (communications software must be purchased to connect to the desired VAN)

**Hardware/Operating System Environment:** EDI\*PC – IBM compatible XT, AT, PS/2 with MS-DOS 2.0, 512K RAM, 7MB free on hard disk

EDI\*T, EDI\*Central – IBM mainframe with MVS or DOS/VSE; DEC VAX; Prime mainframe; Honeywell DPS-6; Honeywell DPS-8; Honeywell DPS-9; HP3000

**EDI Standards/Transaction Sets Supported:** X12, TDCC, UCS, WINS, EDIFACT

### **Pricing:**

#### **Basic Package Cost:**

EDI\*PC: \$1,495

EDI\*T: \$9,500

EDI\*Central: \$9,500 for Federal Government; \$20,000 for commercial purchasers

(Source code is included.)

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** First 12 months are free; thereafter, EDI\*PC: \$180; EDI\*T: \$1,200; EDI\*Central: \$2,400

**Maintenance Fee Includes:** Hot line, standards updates, software enhancements; future enhancements may not be included.

**Training Fee:** \$750 per person at vendor location; on-site training is negotiable.

**Additional Fees:** Installation Assistance: EDI\*PC on site: \$500 for 1 day;  
EDI\*T: \$1,800 for 2 days; EDI\*Central: \$1,200 per day

**Networks Directly Accessed:** EDI\*PC includes the communications software needed to access GEIS and other major networks; EDI\*T and EDI\*Central can access other major networks in addition to GEIS with optional communications software.

### **Vendor Experience**

**Year Company Founded:** 1879

**Date Package First Available:**

EDI\*PC – 1986

EDI\*T – 1987

EDI\*Central – 1988

### **EDI Professional Staff Resources**

**Technical Staff:** 50

**Hot Line:** 9

**Total:** 125

**Miscellaneous Information:** Toll-free hot line. User may purchase network interface software, DSXMIT, which accesses EDI VANs and Defense Data Network.

**Programming Language Used by Package:**

EDI\*PC: C, Pascal

EDI\*T: COBOL

EDI\*Central: COBOL

**Grace Computer Resources, Inc.**

**Address:** 204 Merchants Drive  
Norcross, GA 30093

**Contact:** Roy Leffew, Jr.

**Phone:** (404) 939-1743

**Product:** EDI-Ware

**Hardware/Operating System Environment:** IBM compatible PC with MS-DOS or PC-DOS version 3.1 or higher, 640K RAM, 5MB free space on hard drive. (Network compatible with IBM and Novell.)

**EDI Standards/Transaction Sets Supported:** X12, TDCC, WINS, VICS, UCS, including draft standards

**Pricing:**

**Basic Package Cost:**

EDI-Ware EMS — \$300, includes free transaction set map; additional "new" transaction sets are \$100

EDI-Ware Map — \$1,000, allows user to map to user-defined database internal to EDI-Ware

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** \$100 for each new transaction set for EMS.

**Annual Maintenance Fee:** EMS — \$100; Map — \$500

**Maintenance Fee Includes:** Software updates, standards updates, hot line

**Training Fee:** \$115 per hour on-site; \$300 per day at company location

**Additional Fees:** Offers IBM network mailbox; call company for details.

**Networks Directly Accessed:** IBM, Control Data

**Vendor Experience**

**Year Company Founded:** 1981

**Date Package First Available:** 1986

**EDI Professional Staff Resources**

**Technical Staff: 5**

**Hot Line: 2**

**Total: 5**

**Miscellaneous Information:** Vendor offers additional consulting services.

**Programming Language Used by Package:** Visual COBOL

## **Harbinger\*EDI Services**

**Address:** 1800 Century Place, Suite 340  
Atlanta, GA 30345

**Contact:** Jim Langford

**Phone:** (404) 320-1636

**Product:** InTouch\*EDI – data input screens only; no application interface  
InTouch\*EDI PLUS – includes application interface

**Hardware/Operating System Environment:** IBM compatible PC, XT, AT, PS/2 with 10MB, 640K RAM, MS-DOS 3.0 or higher

**EDI Standards/Transaction Sets Supported:** X12, TDCC, WINS, UCS

### **Pricing:**

#### **Basic Package Cost:**

Microcomputer programs, all transaction sets, network setup: \$900

"Bridge," including scheduler and flat-file capability: \$1,000

**Additional Charge Per EDI Standard:** Call vendor

**Additional Charge Per Transaction Set:** Call vendor

**Annual Maintenance Fee:** InTouch\*EDI: First 12 months are free, then \$120/year or \$12/month. InTouch\*EDI PLUS: First 6 months are free, then \$300/year or \$30/month.

**Maintenance Fee Includes:** Standards updates, software enhancements, toll-free hot line

**Training Fee:** Not available

**Additional Fees:** Not available

**Networks Directly Accessed:** Uses only Harbinger network; interconnects are available to other major networks.

### **Vendor Experience**

**Year Company Founded:** 1983

**Date Package First Available:** 1988

**EDI Professional Staff Resources**

**Technical Staff: 25**

**Hot Line: 6**

**Total: 65 (including network services personnel)**

**Miscellaneous Information:** Vendor is partly owned by Westinghouse Electric Corporation; vendor will provide customized EDI services upon request.

**Programming Language Used by Package: C, Btrieve**



**Integrated Telecommunication Software Corp.**

**Address:** 7840 North Lincoln Avenue  
Skokie, IL 60077

**Contact:** Phil Keminsky

**Phone:** (708) 677-0800

**Product:** SDIS – Standards Driven Interface System

**Hardware/Operating System Environment:** IBM compatible XT, AT, or 386 with MS-DOS, Unix, or Xenix

**EDI Standards/Transaction Sets Supported:** X12, TDCC, VICS, UCS, EDIFACT

**Pricing:**

**Basic Package Cost:** \$500

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** \$600

**Maintenance Fee Includes:** Software enhancements, standards updates, new trading partners

**Training Fee:** None

**Additional Fees:** None

**Networks Directly Accessed:** IBM; BT Tymnet; ORDERNET; Control Data; GEIS

**Vendor Experience**

**Year Company Founded:** 1982

**Date Package First Available:** 1989

**EDI Professional Staff Resources**

**Technical Staff:** 5

**Hot Line:** (Technical staff also supports hot line.)

**Total:** 8

**Miscellaneous Information:**

**Programming Language Used by Package:** COBOL Reilia and MicroFocus  
COBOL

## **International Business Machines**

**Address:** 3405 West Buffalo Avenue  
Mail Drop S405A  
Tampa, FL 33630

**Contact:** Mike McElroy

**Phone:** (813) 878-4118

**Product:** Data Interchange/MVS  
Data Interchange/2  
Data Interchange/36  
Data Interchange/38  
Data Interchange/400

**Hardware/Operating System Environment:** IBM mainframe 9370-3090 (MVS/TSO);  
IBM PC with OS/2; IBM System 36, 38, AS400

**EDI Standards/Transaction Sets Supported:** X12, EDIFACT, TDCC, UCS, ALAG

### **Pricing:**

#### **Basic Package Cost:**

|                      |                     |
|----------------------|---------------------|
| Data Interchange/MVS | \$18,000 – \$38,000 |
| Data Interchange/2   | \$4,000             |
| Data Interchange/36  | \$6,600             |
| Data Interchange/38  | \$11,250            |
| Data Interchange/400 | \$6,600 – \$18,150  |

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

#### **Annual Maintenance Fee:**

|                      |                 |
|----------------------|-----------------|
| Data Interchange/MVS | \$761 – \$1,224 |
| Data Interchange/2   | Not available   |
| Data Interchange/36  | \$900           |
| Data Interchange/38  | \$1,550         |
| Data Interchange/400 | \$900 – \$2,475 |

**Maintenance Fee Includes:** Not available

**Training Fee:**

Included in purchase price for Data Interchange/2, /36, and /38.

Data Interchange/MVS: \$1,010

Data Interchange/400: \$945

**Additional Fees:** Installation may be extra.

**Networks Directly Accessed:** IBM only

**Vendor Experience**

**Year Company Founded:** 1912

**Date Package First Available:** 1989

**EDI Professional Staff Resources**

**Technical Staff:** 100

**Hot Line:** Not available

**Total:** Not available

**Miscellaneous Information:** IBM PC QuickEDI and PC QuickEDI PLUS are DOS-based PC packages for use in a stand-alone mode; they include a customized application system. These packages require a "sponsoring" trading partner and a minimum purchase of 50 packages. Vendor provided toll-free telephone support.

**Programming Language Used by Package:** Not available

**LEK Product Marketing Company, Inc.**

**Address:** 2226 E. 117<sup>th</sup> Street  
Burnsville, MN 55337

**Contact:** Larry Kramer

**Phone:** (612) 895-0192

**Product:** EDIpl Translation Software

**Hardware/Operating System Environment:** IBM compatible PC, XT, AT, 386 with PC/MS-DOS; IBM compatible AT, 386 with Unix and Unix-equivalent operating systems; IBM AIX

**EDI Standards/Transaction Sets Supported:** X12, TDCC, UCS, WINS

**Pricing:**

**Basic Package Cost:**

DOS: \$1,000 with minimum purchase of 5

System Integrator's license: \$22,000 plus \$250 per installation

Unix site license: \$7,500 for first port

Concurrent, Apollo, and IBM RT6000: \$15,000

**Additional Charge Per EDI Standard:** System Integrators: \$5,000 per standards release

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** 12 percent of license and standards fee; free the first 6 months

**Maintenance Fee Includes:** Hot line, standards updates, software enhancements

**Training Fee:** Call vendor.

**Additional Fees:** Vendor will customize mapping of EDI data to application database formats; typically at a cost of \$500 per transaction set.

**Networks Directly Accessed:** Network interface software is not provided but vendor will write a script to use the VAN's communications software.

**Vendor Experience**

**Year Company Founded:** 1985

**Date Package First Available:** 1988

**EDI Professional Staff Resources**

**Technical Staff:** Not available

**Hot Line:** Not available

**Total:** Not available

**Miscellaneous Information:** Vendor provides custom programming services.

**Programming Language Used by Package:** C

**MAXXUS, Inc.**

**Address:** 140 Second Street, Suite 603  
San Francisco, CA 94105

**Contact:** John Fountain

**Phone:** (415) 243-9690

**Product:** MAXX\*EDI-ENTRY – send/receive capability only; no application interface  
MAXX\*TRANSLATOR – requires user operation  
MAXX\*EDI – has a manager and auto scheduler

**Hardware/Operating System Environment:** IBM compatible AT, 386, 486, with MS-DOS 3.0 or higher; networking capability

**EDI Standards/Transaction Sets Supported:** X12, TDCC, EDIFACT, WINS, VICS

**Pricing:**

**Basic Package Cost:**

MAXX\*EDI-ENTRY: \$1,500 – \$2,500

MAXX\*TRANSLATOR: \$3,500 – \$23,500

MAXX\*EDI: \$3,500 – \$23,500

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** 15 percent of software purchase price

**Maintenance Fee Includes:** Hot line, software enhancements, standards updates

**Training Fee:** \$1,500 – \$2,500, depending on package

**Additional Fees:** None

**Networks Directly Accessed:** BT Tymnet; IBM; AT&T; GEIS; Harbinger. (Vendor will interface to any network requested by user at no charge.)

**Vendor Experience**

**Year Company Founded:** 1986

**Date Package First Available:** 1988

**EDI Professional Staff Resources**

**Technical Staff:** Not available

**Hot Line:** Not available

**Total:** Not available

**Miscellaneous Information:** Vendor also sells EFT products including MAXX-ACH; all MAXX-products are modular and build upon one another.

**Programming Language Used by Package:** C



**MPACT EDI Systems, Inc.**

**Address:** 17197 North Laurel Park Drive  
Livonia, MI 48152

**Contact:** Skip Krassa

**Phone:** (313) 462-2244

**Product:** Messageway (includes XWAY translator)

**Hardware/Operating System Environment:** Tandem

**EDI Standards/Transaction Sets Supported:** X12, TDCC, EDIFACT

**Pricing:**

**Basic Package Cost:**

System 6 (supports 6 concurrent communications sessions) — \$90,000

System 12 — \$180,000 (supports 12 concurrent communications sessions)

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** 18 percent of list price for site license fee; free for first 90 days

**Maintenance Fee Includes:** Standards updates, toll-free telephone hot line, software enhancements

**Training Fee:** \$300 per day at MPACT facilities; \$600 per day, plus expenses, at customer facilities

**Additional Fees:** Many options are available; call vendor for prices.

**Networks Directly Accessed:** GEIS; RAILINC; Kleinschmidt; ORDERNET; TradeNet (each is available for \$3,500)

**Vendor Experience**

**Year Company Founded:** Initially founded as Merit Systems, Inc., in 1977.

**Date Package First Available:** 1987

**EDI Professional Staff Resources**

**Technical Staff: 45**

**Hot Line: 20**

**Total: 80**

**Miscellaneous Information:** Vendor also provides EDI consulting and programming services.

**Programming Language Used by Package:** C, TAL, Pathway, COBOL 85

## **Perwill Incorporated**

**Address:** 5053 La Mart Drive, Suite 101  
Riverside, CA 92507

**Contact:** Joan Nolan

**Phone:** (714) 683-7920

**Product:** EDI Starterpac (Does not have an application interface; can only send/receive invoices, purchase orders, delivery notices, and shipment notices.)

**Microcomputer:** ISM-EDI – A full system that can interface other packages, applications systems, and the HP3000.

Trade\*PAC – Interface capabilities are not as sophisticated.

**Minicomputer:** EDI/3000  
EDI/Unix

**Mainframe:** EDI/MVS (will be released in the United States in late 1990).

**Hardware/Operating System Environment:** IBM compatible PC with MS-DOS or OS/2; HP3000, HP9000; NCR Tower; DEC VAX; IBM MVS mainframes (VSE).

**EDI Standards/Transaction Sets Supported:** X12, TDCC, WINS, EDIFACT

### **Pricing:**

#### **Basic Package Cost:**

EDI Starterpac: \$1,500

ISM-EDI and Trade\*PAC: \$5,400

EDI/3000: \$7,000 – \$27,000

EDI/Unix: Up to \$27,000

EDI/MVS: \$70,000

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** Call vendor.

**Annual Maintenance Fee:** Microcomputer: 18 percent of purchase price;  
Minicomputer and mainframe: 15 percent of purchase price.

**Maintenance Fee Includes:** Hot line, software enhancements, standards update

**Training Fee:** Available upon request

**Additional Fees:** None

**Networks Directly Accessed:** GEIS, ORDERNET, IBM

**Vendor Experience**

**Year Company Founded:** 1973

**Date Package First Available:** 1985

**EDI Professional Staff Resources**

**Technical Staff:** 5

**Hot Line:** 2

**Total:** 10

**Miscellaneous Information:** Vendor will provide a 100 percent trade-in credit to customers that upgrade to a larger hardware platform.

**Programming Language Used by Package:** COBOL

**Piedmont Systems, Inc.**

**Address:** 4400 Silas Creek Parkway, Suite 300  
Winston-Salem, NC 27104

**Contact:** Chuck Cloer

**Phone:** (919) 760-3620

**Product:** TEL-EDI  
EDI Engine – designed to be linked to application systems, but does not have an application interface

**Hardware/Operating System Environment:** TEL-EDI – DOS; SCO Unix System V; SCO Xenix; DEC VMS (Microvax and 8000 Series)  
EDI Engine – DOS, Apple MacIntosh

**EDI Standards/Transaction Sets Supported:** X12, TDCC

**Pricing:**

**Basic Package Cost:**

TEL-EDI: \$2,495

EDI Engine: Call vendor

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:**

TEL-EDI base: \$374.25

TEL-EDI data mapping utility: \$200

EDI Engine: Not available

**Maintenance Fee Includes:** Not available

**Training Fee:** TEL-EDI: \$600 per day plus expenses

**Additional Fees:** Data mapping utility is available for \$1,190.

**Networks Directly Accessed:** GEIS; BT Tymnet; Western Union; Kleinschmidt; IBM; Sears; ORDERNET; Control Data

**Vendor Experience**

**Year Company Founded:** 1987

**Date Package First Available:** TEL-EDI – 1987; EDI Engine – 1990

**EDI Professional Staff Resources**

**Technical Staff:** 2

**Hot Line:** 2

**Total:** 5

**Miscellaneous Information:**

**Programming Language Used by Package:**

TEL-EDI – BASIC and C

EDI Engine – C

**Radley Business Computers, Inc.**

**Address:** 23077 Greenfield Road  
Southfield, MI 48075

**Contact:** Will Soutar

**Phone:** (800) 334-9934  
(313) 559-6858

**Product:** R-EDI

**Hardware/Operating System Environment:** DEC VAX (VMS)

**EDI Standards/Transaction Sets Supported:** X12, TDCC, VICS, WINS, UCS, EDIFACT

**Pricing:**

**Basic Package Cost:** \$6,000 and up based on CPU

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** 10 percent of list price (no hot line); 14 percent of list price (includes hot line)

**Maintenance Fee Includes:** Hot line, software enhancements, standards updates

**Training Fee:** \$800 plus expenses

**Additional Fees:** \$1,200 to set up a trading partner and their transaction sets.

**Networks Directly Accessed:** GEIS; IBM; Sears; Control Data; ORDERNET

**Vendor Experience**

**Year Company Founded:** 1980

**Date Package First Available:** 1990

**EDI Professional Staff Resources**

**Technical Staff: 8**

**Hot Line: 4**

**Total: 12**

**Miscellaneous Information:**

**Programming Language Used by Package: DIBOL**



**RMS, Inc.**

**Address:** 17187 N. Laurel Park Drive, Suite 204  
Livonia, MI 48152

**Contact:** John Bennett

**Phone:** (313) 462-1200

**Product:** RMS VLT

**Hardware/Operating System Environment:** IBM compatible PC, XT, AT, PS/2, 386 with SCO Xenix System V or MS-DOS 3.3 or earlier; Unisys B25 (BTOS/CTOS); DEC VAX (VMS); Tandem (through an alliance with MPACT EDI Systems, Inc.)

**EDI Standards/Transaction Sets Supported:** X12, TDCC

**Pricing:**

**Basic Package Cost:** \$1,950 — includes one communications link, one trading partner profile or subset, and one EDI standard

**Additional Charge Per EDI Standard:** \$500 each

**Additional Charge Per Transaction Set:** \$250 for outgoing transaction sets

**Annual Maintenance Fee:** First 90 days are free; \$700

**Maintenance Fee Includes:** Hot line, standards updates, software enhancements

**Training Fee:** Vendor location — \$250 for two people; on site — \$700 plus travel and living expenses; self-taught course is available at no expense.

**Additional Fees:** Not available

**Networks Directly Accessed:** GEIS; BT Tymnet; IBM; ORDERNET; Trans-Settlements; Control Data; RAILINC; Western Union; AT&T; CompuServe; CTX; Sears

**Vendor Experience**

**Year Company Founded:** 1982

**Date Package First Available:** 1986

**EDI Professional Staff Resources**

**Technical Staff: 4**

**Hot Line: 6**

**Total: 22**

**Miscellaneous Information:** Vendor also offers consulting services and an EDI data mapper (RMS Customizer – \$1,650).

**Programming Language Used by Package:** MicroFocus COBOL

## **St. Paul Software**

**Address:** 754 Transfer Road  
St. Paul, MN 55114

**Contact:** Sharon L. Roland

**Phone:** (612) 641-0963

**Product:** Interconn — microcomputers  
Datatran — minicomputers and mainframes

**Hardware/Operating System Environment:** Interconn — IBM compatible XT, AT, PS/2 with 10MB hard disk, 640K RAM

Datatran — NCR Tower (Unix); NCR I-Series mainframe (ITX); IBM 4341, 4381 (DOS/VSE); plus many other hardware platforms

**EDI Standards/Transaction Sets Supported:** X12; TDCC (204, 206, 210, 213, 214); ALIAG; UCS; VICS; WINS

### **Pricing:**

#### **Basic Package Cost:**

Interconn: \$1,995 (includes all transaction sets and the network interface for first trading partner)

Datatran: Unix PC: \$3,500; NCR Tower, IBM RT, RISC machines, and AT&T 3B2: \$5,500; Sequent, Gould 9050, DEC VAX, Pyramid: \$8,500; Gould 9000: \$10,000

**Additional Charge Per EDI Standard:** Nominal shipping and handling

#### **Additional Charge Per Transaction Set:**

Interconn: \$250

Datatran: None — all transaction sets are included.

#### **Annual Maintenance Fee:**

Interconn: \$399

Datatran: Typically 10 percent of purchase price; varies according to platform. First 90 days are free for all packages.

**Maintenance Fee Includes:** Standards updates, software enhancements, telephone support

**Training Fee:** \$750 per day plus travel and living expenses

**Additional Fees:** Not available

**Networks Directly Accessed:** Control Data; BT Tymnet; GEIS; IBM; CompuServe; ORDERNET; Western Union; RAILINC; Sears

**Vendor Experience**

**Year Company Founded:** 1981

**Date Package First Available:** 1985

**EDI Professional Staff Resources**

**Technical Staff:** 6

**Hot Line:** 2

**Total:** 10

**Miscellaneous Information:**

**Programming Language Used by Package:**

Interconn – MicroSoft QuickBASIC

Datatran – COBOL, C

**Sterling Software, ORDERNET Services Division**

**Address:** P. O. Box 7160  
4600 Lakehurst Court  
Dublin, OH 43017

**Contact:** Doug Stewart

**Phone:** (614) 793-7000

**Product:** GENTRAN®; GENTRAN Plus®; GENTRAN® 400; TRANSLATOR\*MVS; TRANSLATOR\*VSE; TRANSLATOR\*36; TRANSLATOR\*38; TRANSLATOR\*4XX; MICRO\*TRAN.

(Vendor also remarkets EDI, Inc.'s TELINK microcomputer product.)

**Hardware/Operating System Environment:** IBM MVS mainframes; DEC VAX (VMS); IBM 30XX, 43XX, 9370 (MVS or DOS/VSE); IBM System 36, System 38, AS400; Data General; IBM compatible PC, XT, AT, PS/2 with 10MB hard disk, 256 RAM, MS-DOS 2.0 or higher (although 3.1 or higher is recommended)

**EDI Standards/Transaction Sets Supported:** X12, TDCC, AIAG, VICS, WINS, EDIFACT, UCS

**Pricing:**

**Basic Package Cost:**

GENTRAN: IBM MVS \$36,850; VSE \$33,500; DEC VAX \$20,100

GENTRAN Plus: DOS Bi-Sync \$69,500; DOS SNA \$75,000; DOS Combo \$85,000; OS Bi-Sync \$81,500; OS SNA Peer-to-Peer \$109,500; OS Combo Peer-to-Peer \$122,500

GENTRAN/400: Models B10, B20, B30, B35 \$9,800; B40, B45, B50 \$13,600; B60, B70, B80 \$18,200

TRANSLATOR\*MVS: \$36,850

TRANSLATOR\*VSE: \$33,500

TRANSLATOR\*36: \$6,000

TRANSLATOR\*38: \$13,000

TRANSLATOR\*400: models B10, B20, B30, B35 \$9,800; B40, B45, B50 \$13,600; B60, B70, B80 \$18,200

MICRO\*TRAN: \$1,995

QUICK\*TRAN: \$2,750

PRO\*TRAN: \$4,250

(All basic packages include source code.)

**Additional Charge Per EDI Standard: None**

**Additional Charge Per Transaction Set: None**

**Annual Maintenance Fee: First year free, then 15 percent of current price**

**Maintenance Fee Includes: Standards updates, hot line, software enhancements**

**Training Fee: Two days of installation and training at user site are included in mainframe products.**

**Additional Fees: Not available**

**Networks Directly Accessed: ORDERNET; GEIS; BT Tymnet; IBM; Control Data; TranSettlements; Kleinschmidt; RAILINC**

**Vendor Experience**

**Year Company Founded: 1978**

**Date Package First Available: 1987**

**EDI Professional Staff Resources**

**Technical Staff: 35**

**Hot Line: 10**

**Total: 300**

**Miscellaneous Information: Vendor recently purchased Metro-Mark Integrated Systems, Inc., and their line of EDI software products. Vendor also offers EDI implementation programs, database services, communications software, consulting, and EDI education.**

**Programming Language Used by Package:**

**MICRO\*TRAN – 74 COBOL**

**TRANSLATOR\*36, \*38, \*4XX – RPG**

**TRANSLATOR\*VSE, TRANSLATOR\*MVS – ANSI 74 COBOL**

**GENTRAN Products – ANSI COBOL, RPG**

## **Supply Tech, Inc.**

**Address:** 27784 Franklin Road  
Southfield, MI 48034

**Contact:** Wendell Holladay

**Phone:** (313) 357-3430

**Product:** STX12

**Hardware/Operating System Environment:** IBM compatible XT, AT, PS/2, 386 with 640K RAM, 10MB hard disk (recommends 20MB), MS-DOS 3.0 or higher; IBM compatible mainframe (MVS and DOS/VSE)

**EDI Standards/Transaction Sets Supported:** X12, TDCC, UCS, EDIFACT

### **Pricing:**

#### **Basic Package Cost:**

**Microcomputer:** \$2,295 – \$3,990 (includes two custom transaction formats, 997 transaction set, and one communications module for one network)

**Mainframe:** \$9,500 – \$35,000

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** Microcomputer: \$600 – \$780; Mainframe: 15 percent of list price

**Maintenance Fee Includes:** Hot line, software enhancements

**Training Fee:** \$500 per person per day

**Additional Fees:** Call vendor.

**Networks Directly Accessed:** GEIS; ORDERNET; Kleinschmidt; RAILINC; TranSettlements; Western Union; Sears; Control Data; Dialcom; IBM; Telecom Canada; DATA PAC; CompuServe; AT&T; BT Tymnet

### **Vendor Experience**

**Year Company Founded:** 1984

**Date Package First Available:** 1987

**EDI Professional Staff Resources**

**Technical Staff:** Not available

**Hot Line:** Varies

**Total:** 85

**Miscellaneous Information:** Vendor's EDI products are available to DoD activities through General Services Administration Contract #GS00KAGS5192.

**Programming Language Used by Package:** MicroFocus COBOL



**Synergistic Systems, Inc.**

**Address:** 442 North 3rd Street  
Neptune Beach, FL 32233

**Contact:** Ron Meison

**Phone:** (904) 249-0201

**Product:** BIZIBOX

**Hardware/Operating System Environment:** IBM compatible PC, AT, 386, PS/2 with MS-DOS 3.3, 20MB hard disk, 1MB RAM

**EDI Standards/Transaction Sets Supported:** X12, TDCC (All transaction sets supported are "developed" on a customer request basis.)

**Pricing:**

**Basic Package Cost:**

\$1,895: Standalone system for PC or AT with one transaction set

\$8,495: Flat file system for AT or 386, with six transaction sets

\$14,495: For 386 only, direct mapping from application data to standards, includes all transaction sets

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** First 90 days are free, then 15 percent of purchase cost

**Maintenance Fee Includes:** Standards updates, software enhancements, customer support

**Training Fee:** Included in purchase price

**Additional Fees:** Not available

**Networks Directly Accessed:** IBM; Control Data; TranSettlements; GEIS; BT Tymnet

**Vendor Experience**

**Year Company Founded:** 1986

**Date Package First Available:** 1988

**EDI Professional Staff Resources**

**Technical Staff:** 6 (maintenance only)

**Hot Line:** 2

**Total:** 7

**Miscellaneous Information:** Vendor specializes in distributed processing for mid- to large-size computer systems.

**Programming Language Used by Package:** C

## **TSI International**

**Address:** 45 Danbury Road  
P. O. Box 840  
Wilton, CT 06897-0840

**Contact:** Meg Murdock

**Phone:** (203) 761-8600

**Product:** TranSlate

**Hardware/Operating System Environment:** IBM compatible mainframes (DOS/VSE or MVS); HP; DEC VAX; Unisys

**EDI Standards/Transaction Sets Supported:** X12, TDCC, VICS, WINS

### **Pricing:**

#### **Basic Package Cost:**

DOS/VSE: \$30,000

MVS: \$35,000

Non-IBM: \$25,000

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** None

**Annual Maintenance Fee:** First year included in purchase price, then 15 percent of current list price

**Maintenance Fee Includes:** Hot line, software enhancements, standards updates

**Training Fee:** \$300 per day per person at vendor site; \$1,000 per day plus expenses at client site

**Additional Fees:** Not available

**Networks Directly Accessed:** GEIS; IBM; ORDERNET; BT Tymnet; Kleinschmidt; RAILINC; TranSettlements; Western Union

**Vendor Experience**

**Year Company Founded:** 1967

**Date Package First Available:** 1982

**EDI Professional Staff Resources**

**Technical Staff:** 5

**Hot Line:** 4

**Total:** 8

**Miscellaneous Information:** Vendor acquired TranSettlements, Inc.'s, TranSlate EDI product in March 1990; it is currently developing a data mapping utility (Trading Partner) that requires no programming by the purchaser.

**Programming Language Used by Package:** ANSI 74 COBOL

**Wright Systems, Inc.**

**Address:** 14492 Sheldon Road, Suite 300  
Plymouth, MI 48170

**Contact:** Dick Dressell

**Phone:** (800) 234-7253  
(313) 459-7760

**Product:** Wright EDI

**Hardware/Operating System Environment:** IBM System 36, System 38, AS400

**EDI Standards/Transaction Sets Supported:** X12, WINS, VICS, TDCC, AIAG

**Pricing:**

**Basic Package Cost:**

System 36: \$4,000

System 38: \$7,000

AS400: \$6,000 – \$18,000

(Basic package includes translator, communications software, RJE communications, 997 transaction set, and two additional transaction sets.)

**Additional Charge Per EDI Standard:** None

**Additional Charge Per Transaction Set:** \$500

**Annual Maintenance Fee:** 18 percent of total current value of package; first 90 days are free.

**Maintenance Fee Includes:** Standards upgrades, software enhancements, hot-line support

**Training Fee:** \$600 per day

**Additional Fees:** Vendor will program custom interfaces for \$75 per hour.

**Networks Directly Accessed:** IBM; GEIS; Control Data; Kleinschmidt; ORDERNET; BT Tymnet (Vendor will access additional networks as requested by a user; the cost will depend upon the user's requirements.)

**Vendor Experience**

**Year Company Founded: 1977**

**Date Package First Available: 1987**

**EDI Professional Staff Resources**

**Technical Staff: 10**

**Hot Line: 4**

**Total: 18**

**Miscellaneous Information:** Vendor's X12 experience is primarily in the automotive industry; vendor provides some consulting services.

**Programming Language Used by Package: RPG**

## **APPENDIX C**

### **EDI TRANSLATION SOFTWARE FUNCTIONS AND FEATURES**

Table C-1 identifies 48 functions and features that could be included in an EDI translation software package for three different operating environments: stand-alone microcomputer, front-end microcomputer, minicomputer, or mainframe. Those operating environments stem from an analysis of DoD's 152 largest CONUS shipping activities that generate Government bills of lading.

TABLE C-1

## EDI TRANSLATION SOFTWARE REQUIREMENTS

| Function/feature                             | Operating environment |           |                            |
|--|-----------------------|-----------|----------------------------|
|  | Stand-alone           | Front-end | Minicomputer/<br>mainframe |
| <b>Communications Features</b>               |                       |           |                            |
| Communications Software                      | M                     | M         | M                          |
| Transaction Set Consolidation Routines       | M                     | M         | M                          |
| Multiple Communications Interface            | O                     | O         | O                          |
| Network Identification Table                 | M                     | M         | M                          |
| Unattended Operations Capability             | M                     | M         | M                          |
| <b>Systems Utilities</b>                     |                       |           |                            |
| Automatic Recovery/Restart Capability        | M                     | M         | M                          |
| Installation Routines                        | M                     | M         | O                          |
| <b>System Interface Routines</b>             |                       |           |                            |
| Application System Interface                 | M                     | M         | M                          |
| Data Input Screens                           | M                     | O         | O                          |
| Input Editing                                | M                     | O         | O                          |
| User-Defined Print Output                    | M                     | O         | O                          |
| User-Definable System Interface              | O                     | O         | O                          |
| User-Defined Data Input Screens              | O                     | O         | O                          |
| <b>Customized Operations Routines</b>        |                       |           |                            |
| Code Conversion Capability                   | O                     | O         | O                          |
| Data Element Delimiter Table                 | M                     | M         | M                          |
| Functional Acknowledgment Capability         | M                     | M         | M                          |
| Multiple Header Support                      | M                     | M         | M                          |
| Segment Terminator Table                     | M                     | M         | M                          |
| Trading Partner Profile                      | O                     | M         | M                          |
| Transaction Set Sequential Numbering         | M                     | M         | M                          |
| Version Support Table                        | M                     | M         | M                          |
| <b>Editing Features</b>                      |                       |           |                            |
| Character Conversion Capability <sup>a</sup> | O                     | O         | O                          |
| Inbound Standards Compliance Editing         | M                     | M         | M                          |
| Internal Codes Duplication Routine           | M                     | O         | O                          |
| Outbound Standards Compliance Editing        | M                     | M         | M                          |
| Transaction Set Correction Capability        | M                     | O         | O                          |

Note: M = mandatory; O = optional.

<sup>a</sup> Pertinent to only those sites that will use point-to-point communications with one or more trading partners.



TABLE C-1

## EDI TRANSLATION SOFTWARE REQUIREMENTS (Continued)

| Function/feature   | Operating environment |           |                            |
|--|-----------------------|-----------|----------------------------|
|  | Stand-alone           | Front-end | Minicomputer/<br>mainframe |
| <b>System Maintenance Routines</b>                                     |                       |           |                            |
| Automated Purging  | M                     | M         | M <sup>b</sup>             |
| Expandability  | M                     | M         | M                          |
| Maintenance Support  | M                     | M         | M                          |
| Table-Driven Software Structure  | M                     | M         | M                          |
| Transaction Set Archiving  | M                     | M         | M                          |
| Version Support  | M                     | M         | M                          |
| <b>Report Functions</b>  |                       |           |                            |
| Error Reports  | M                     | M         | M                          |
| Functional Acknowledgment Reconciliation                               | M                     | M         | M                          |
| Inbound Transaction Set Reporting                                      | M                     | M         | M                          |
| Outbound Transaction Set Reporting                                     | M                     | M         | M                          |
| Transmitted Characters   | O                     | O         | O                          |
| User-Defined Management Reports  | O                     | O         | O                          |
| <b>Support Features</b>  |                       |           |                            |
| Help Screens <sup>c</sup>  | O                     | O         | O                          |
| Technical Documentation  | M                     | M         | M                          |
| Trainings <sup>c</sup>   | M                     | M         | M                          |
| Tutorial Packages <sup>c</sup>   | O                     | O         | O                          |
| User Documentation   | M                     | M         | M                          |
| User Support (Hot Lines)   | M                     | M         | M                          |
| <b>Miscellaneous Features</b>  |                       |           |                            |
| Compatibility with Encryption and Authentication Packages <sup>d</sup> | O                     | O         | O                          |
| Multiple Users   | O                     | O         | O                          |
| Selective Accessibility  | M                     | M         | O                          |
| System Entry Security  | M                     | M         | O                          |

**Note:** M = mandatory; O = optional.

<sup>b</sup> Operating system utilities separate from the translation software package may fulfill this requirement.

<sup>c</sup> Either training or the help screens and tutorial package is mandatory.

<sup>d</sup> When the requirements for such a feature have been fully defined, we expect this feature will be mandatory for all operating environments.

## **APPENDIX D**

### **SOFTWARE PRODUCT SURVEY RESULTS**

This appendix presents the results of a telephone survey of EDI translation software vendors. The information obtained in that survey is categorized by the type of computer hardware required by the software package: microcomputer (Table D-1), minicomputer (Table D-2), or mainframe (Table D-3). We did not request detailed information for those features that all vendors typically claim are included in their software. For example, virtually all vendors claim their software is "table-driven" and includes "transaction set archiving." Instead, we focused on those features that we believe help to differentiate the various product offerings. To illustrate: although user-defined management reports are not required by any of the operating environments, we believe that feature is very useful and not offered by all vendors.

TABLE D-1. MICROCOMPUTER TRANSLATION SOFTWARE SURVEY

| Company and Product  |                  | Communications Features          |                      |                                 |                   | System Interface   |                   |                         |                    | Customized Operations          |     |                                |                    | Editing          |                 |                        |     | System Maintenance     |                  |                  |     | Reports              |                   | Support Features          |     | Miscellaneous Features    |                 |                          |     |                       |     |                         |  |
|--|------------------|----------------------------------|----------------------|---------------------------------|-------------------|--------------------|-------------------|-------------------------|--------------------|--------------------------------|-----|--------------------------------|--------------------|------------------|-----------------|------------------------|-----|------------------------|------------------|------------------|-----|----------------------|-------------------|---------------------------|-----|---------------------------|-----------------|--------------------------|-----|-----------------------|-----|-------------------------|--|
|  |                  | Unattended Operations Capability |                      | Data Input Screens              |                   | Input Editing      |                   | Multiple Header Support |                    | Transaction Set Seq. Numbering |     | Version Support                |                    | Trading Profile  |                 | Compound Sites Editing |     | Compound Sites         |                  | Automated Purgng |     | Truncated Characters |                   | User-Defined Rpt. Reports |     | User Support (Hot Lines)  |                 | Help Screens             |     | System Entry Security |     | Selective Accessibility |  |
|  |                  |                                  |                      |                                 |                   |                    |                   |                         |                    |                                |     |                                |                    |                  |                 |                        |     |                        |                  |                  |     |                      |                   |                           |     |                           |                 |                          |     |                       |     |                         |  |
|  |                  | Operate System Interface         |                      | User-Definable System Interface |                   | Data Input Screens |                   | Input Editing           |                    | Multiple Header Support        |     | Transaction Set Seq. Numbering |                    | Version Support  |                 | Trading Profile        |     | Compound Sites Editing |                  | Compound Sites   |     | Automated Purgng     |                   | Truncated Characters      |     | User-Defined Rpt. Reports |                 | User Support (Hot Lines) |     | Help Screens          |     | System Entry Security   |  |
| Advanced Communications System ACS/CK 12                         | Yes              | No                               | No                   | Yes                             | Yes               | Yes                | Yes               | Yes <sup>1</sup>        | Yes                | Yes                            | Yes | Yes                            | Yes                | No               | No              | Yes                    | Yes | No                     | No               | Yes              | Yes | No                   | No                | Yes                       | No  | No                        | No              | No                       | No  | No                    | No  | No                      |  |
| American Business Computer EDC-PC                                | Yes              | No                               | Yes                  | Yes                             | No                | Yes <sup>2</sup>   | Yes               | Yes                     | Yes <sup>2</sup>   | Yes                            | Yes | Yes                            | Yes                | No <sup>3</sup>  | No              | Yes                    | Yes | No                     | No               | Yes              | Yes | Yes                  | Yes               | Yes                       | Yes | Yes                       | Yes             | Yes                      | No  | No                    | No  | No                      |  |
| EDI-FC/PC and EDI-FC/Unix  | Yes              | Yes                              | No                   | Yes <sup>4</sup>                | Yes               | Yes <sup>2</sup>   | Yes               | Yes                     | Yes <sup>2</sup>   | Yes                            | Yes | Yes                            | Yes <sup>5</sup>   | Yes              | Yes             | Yes <sup>5</sup>       | Yes | Yes                    | Yes <sup>6</sup> | Yes              | Yes | Yes                  | Yes               | Yes                       | Yes | Yes                       | ID and Password | Yes                      | Yes | Yes                   | Yes | Yes                     |  |
| American Custom Software, Inc. Business Partner Translator (BPT) | Yes              | Yes                              | Yes                  | Yes                             | Yes               | Yes                | Yes               | Yes                     | Yes <sup>2,7</sup> | Yes                            | Yes | Yes <sup>2,7</sup>             | Yes <sup>2,7</sup> | Yes              | No              | Yes                    | Yes | Yes                    | Yes              | Yes              | Yes | Yes                  | Yes <sup>8</sup>  | Yes                       | Yes | Yes                       | Yes             | Yes                      | Yes | Yes                   | Yes | Yes                     |  |
| The API Group Inc. QuaEDI  | Yes <sup>9</sup> | No                               | Yes                  | Yes                             | Yes               | Yes                | Yes               | No <sup>10</sup>        | Yes <sup>5</sup>   | Yes                            | Yes | Yes <sup>5</sup>               | Yes <sup>5</sup>   | Yes              | No              | Yes                    | Yes | Yes                    | No               | No               | No  | No                   | Yes               | Yes                       | Yes | ID and Password           | Yes             | Yes                      | Yes | Yes                   | Yes | Yes                     |  |
| Baggery & Associates "EDI"FOCUS-                                 | Yes              | Yes                              | Yes                  | Yes                             | Yes <sup>2</sup>  | Yes                | Yes               | Yes                     | Yes <sup>5</sup>   | Yes <sup>5</sup>               | Yes | Yes                            | Yes <sup>5</sup>   | Yes <sup>5</sup> | No <sup>3</sup> | Yes                    | Yes | No                     | No               | Yes              | Yes | Yes                  | Yes <sup>11</sup> | Yes                       | Yes | Yes                       | Yes             | Yes                      | No  | No                    | No  | No                      |  |
| Bull Atlantic IntelliTrade and IntelliTrade Plus                 | Yes              | No                               | Yes                  | Yes                             | Yes               | Yes <sup>2</sup>   | Yes               | Yes                     | Yes <sup>5</sup>   | Yes <sup>5</sup>               | Yes | Yes                            | Yes <sup>5</sup>   | Yes              | Yes             | Yes                    | Yes | No                     | Yes              | Yes              | Yes | Yes                  | Yes               | Yes                       | Yes | Yes                       | Yes             | Yes                      | Yes | Yes                   | Yes | Yes                     |  |
| Birmingham Computer Group, Inc. DTS and FIS                      | Yes              | Yes                              | Yes                  | No <sup>14</sup>                | Yes <sup>15</sup> | Yes <sup>2</sup>   | Yes               | Yes                     | Yes                | Yes                            | Yes | Yes                            | Yes                | Yes              | Yes             | Yes                    | Yes | No <sup>16</sup>       | Yes              | Yes              | Yes | Yes                  | Yes               | Yes                       | Yes | Yes                       | Yes             | No                       | No  | No                    | No  | No                      |  |
| CAR-AM Tech Inc. E-Z Order                                       | Yes              | Yes <sup>17</sup>                | Yes                  | Yes <sup>4</sup>                | Yes               | Yes                | Yes               | No                      | Yes <sup>5</sup>   | Yes <sup>18</sup>              | No  | No                             | Yes <sup>18</sup>  | Yes              | No              | Yes                    | Yes | No                     | No               | Yes              | Yes | Yes                  | Yes               | Yes                       | Yes | Yes                       | No              | No                       | No  | No                    | No  | No                      |  |
| Control Data Corporation RED-FLATFILE and RED-MICRO              | Yes              | No                               | Yes                  | No <sup>14</sup>                | Yes <sup>2</sup>  | Yes <sup>2</sup>   | Yes <sup>19</sup> | Yes <sup>5</sup>        | Yes <sup>5</sup>   | Yes                            | Yes | Yes <sup>5</sup>               | Yes <sup>5</sup>   | Yes              | Yes             | Yes                    | Yes | Yes                    | Yes              | Yes              | Yes | Yes                  | Yes               | Yes                       | Yes | Yes                       | No              | No                       | No  | No                    | No  | No                      |  |
| Data Dispatch Corporation ED/synapse                             | Yes              | Yes                              | Yes <sup>20,21</sup> | Yes                             | Yes               | Yes <sup>2</sup>   | Yes               | Yes                     | Yes <sup>22</sup>  | Yes                            | Yes | Yes <sup>5</sup>               | Yes <sup>22</sup>  | Yes              | Yes             | Yes                    | Yes | Yes                    | Yes              | Yes              | Yes | Yes                  | Yes <sup>8</sup>  | Yes                       | Yes | Yes                       | Yes             | Yes                      | Yes | Yes                   | Yes | Yes                     |  |
| Digital Software, Inc. MacEDI                                    | Yes              | Yes                              | No <sup>23</sup>     | Yes                             | Yes               | Yes                | Yes <sup>24</sup> | Yes <sup>5</sup>        | Yes <sup>5</sup>   | Yes                            | Yes | Yes <sup>5</sup>               | Yes <sup>5</sup>   | Yes              | Yes             | Yes                    | Yes | Yes                    | Yes              | Yes              | Yes | No                   | Yes               | No <sup>23</sup>          | Yes | Yes                       | Yes             | Yes                      | Yes | Yes                   | Yes | Yes                     |  |

- 1 Trading partners must be set up by vendor.
  - 2 May be specified for each transaction set used by a trading partner.
  - 3 Nonautomated; available via menu selection or "pull-up window."
  - 4 Supports the EDIFACT header UNA/UNB.
  - 5 Data element codes are also validated.
  - 6 Will sell a turnkey Informix solution (SQL or report writer) or provide interface to another system.
  - 7 Parameter driven; optional.
  - 8 Can be defined by the user.
  - 9 Must be set up every day.
  - 10 Cannot be specified for each trading partner.
  - 11 Help messages can be defined by the user for each data element in each transaction set used by a particular trading partner.
  - 12 Requires vendor assistance.
  - 13 Toll-free 800 number.
  - 14 BG header is not supported; TDCC is not supported.
  - 15 Each transaction set type is not individually numbered.
  - 16 Reports the number of blocks transmitted by the modem.
  - 17 Performed by vendor.
  - 18 Erroneous transactions are received and flagged in a report.
  - 19 Available for an additional fee.
  - 20 Compliance editing occurs after input screen has been completed.
  - 21 Limited field-by-field editing; user can also override the standards on a field basis.
  - 22 Accepts erroneous transactions. User manually determines if transaction is acceptable.
- 
- 23 In development.
  - 24 Requires a different map for each affected trading partner's transaction set.
  - 25 Specific data element editing requirements can be specified for each trading partner.
  - 26 Only checks header controls on inbound transactions.
  - 27 Checks only the interchange envelope and functional group headers; permits nonstandard transactions to be sent and received.
  - 28 Reports the number of transaction sets sent by each trading partner.
  - 29 User-specified dates may be overridden.
  - 30 Nonautomated; requires use of system editor.
  - 31 Reports the number of bytes sent for each transaction set; the number of bytes per network is not reported.
  - 32 In Beta Test mode.
  - 33 Interchange control checking only.
  - 34 Only once per day.
  - 35 Records are purged during the archiving process.
  - 36 Supported by Harbinger's network.
  - 37 Transaction sets are numbered only by functional group or by network.
  - 38 Data bases are automatically encrypted.
  - 39 Depends upon the transaction sets in use by the trading partner.
  - 40 Requires knowledge of EDI standards.
  - 41 Loops within transaction sets are not validated for compliance with the standards.

TABLE D-1. MICROCOMPUTER TRANSLATION SOFTWARE SURVEY (CONTINUED)

| Company and Product  |                   | Communications Features         |                   |                                 |                  | System Interface   |                  |                   |     | Customized Operations   |                   |                            |                      | Editing               |                  |                         |                   | System Maintenance               |     |                                 |     | Reports           |                 | Support Features       |     | Miscellaneous Features    |     |                          |     |              |     |                       |  |                         |  |
|--|-------------------|---------------------------------|-------------------|---------------------------------|------------------|--------------------|------------------|-------------------|-----|-------------------------|-------------------|----------------------------|----------------------|-----------------------|------------------|-------------------------|-------------------|----------------------------------|-----|---------------------------------|-----|-------------------|-----------------|------------------------|-----|---------------------------|-----|--------------------------|-----|--------------|-----|-----------------------|--|-------------------------|--|
|  |                   | Unlimited Operations Capability |                   | User-Definable System Interface |                  | Data Input Screens |                  | Host Editing      |     | Multiple Header Support |                   | Transaction Set Sequencing |                      | Version Support Table |                  | Trading Partner Profile |                   | Outbound Side Compliance Editing |     | Inbound Side Compliance Editing |     | Automated Purging |                 | Transmitted Characters |     | User-Defined Mkt. Reports |     | User Support (Hot Lines) |     | Help Screens |     | System Entry Security |  | Selective Accessibility |  |
|  |                   |                                 |                   |                                 |                  |                    |                  |                   |     |                         |                   |                            |                      |                       |                  |                         |                   |                                  |     |                                 |     |                   |                 |                        |     |                           |     |                          |     |              |     |                       |  |                         |  |
| EDS Associates, Inc.<br>EDTedge                            | Yes               | Yes                             | Yes <sup>25</sup> | Yes                             | Yes              | Yes                | Yes              | Yes <sup>26</sup> | Yes | Yes                     | Yes               | Yes                        | No <sup>27, 27</sup> | Yes                   | No <sup>28</sup> | No                      | Yes               | Yes                              | Yes | Yes                             | Yes | ID and Password   | Yes             |                        |     |                           |     |                          |     |              |     |                       |  |                         |  |
| Dynamic Business Systems<br>TRANS-SYNC                     | Yes               | Yes                             | Yes               | Yes <sup>20</sup>               | Yes              | Yes                | Yes              | Yes               | Yes | Yes <sup>2</sup>        | Yes               | Yes                        | Yes <sup>5</sup>     | Yes                   | No               | No                      | Yes <sup>13</sup> | Yes                              | Yes | Yes                             | Yes | No                | No              |                        |     |                           |     |                          |     |              |     |                       |  |                         |  |
| EDI, Inc.<br>TELINK  | Yes <sup>29</sup> | No                              | Yes               | Yes                             | Yes              | Yes                | Yes              | Yes               | Yes | Yes <sup>2</sup>        | Yes <sup>30</sup> | Yes                        | Yes <sup>5</sup>     | Yes                   | No <sup>3</sup>  | No <sup>28, 31</sup>    | No                | Yes                              | Yes | Yes                             | Yes | Yes               | Yes             | Yes                    | No  | No                        |     |                          |     |              |     |                       |  |                         |  |
| Electronic Data Systems<br>EDI* Asset                      | Yes               | Yes                             | Yes               | Yes                             | Yes              | Yes                | Yes              | Yes <sup>33</sup> | Yes | Yes                     | Yes               | Yes                        | Yes <sup>5</sup>     | Yes                   | Yes              | Yes                     | No                | Yes <sup>13</sup>                | Yes | Yes                             | Yes | Yes               | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes |                       |  |                         |  |
| Facemall Corp.<br>ESPM                                     | Yes               | Yes                             | Yes               | No <sup>14</sup>                | Yes              | Yes                | Yes              | Yes               | Yes | Yes                     | Yes               | Yes                        | Yes <sup>5</sup>     | Yes                   | Yes              | Yes                     | Yes               | Yes                              | Yes | Yes                             | Yes | Yes               | ID and Password | Yes                    |     |                           |     |                          |     |              |     |                       |  |                         |  |
| General Electric Information Services<br>EDI* PC           | Yes <sup>34</sup> | No                              | Yes               | Yes <sup>4</sup>                | Yes              | Yes                | Yes <sup>2</sup> | Yes               | Yes | Yes                     | No                | Yes <sup>5</sup>           | Yes                  | No <sup>35</sup>      | No <sup>28</sup> | No                      | Yes               | Yes                              | Yes | Yes                             | Yes | Yes               | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes |                       |  |                         |  |
| Gross Computer Resources, Inc.<br>EDI-Ware                 | Yes               | Yes                             | Yes               | No                              | Yes              | Yes                | Yes <sup>2</sup> | Yes               | Yes | Yes                     | Yes               | Yes                        | Yes <sup>5</sup>     | Yes                   | No               | No                      | No                | Yes                              | Yes | Yes                             | Yes | Yes               | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes |                       |  |                         |  |
| Marlinger*EDI Services<br>Intouch*EDI and Intouch*EDI Plus | Yes               | Yes <sup>19, 32</sup>           | Yes               | Yes <sup>36</sup>               | Yes              | Yes                | Yes <sup>2</sup> | Yes               | Yes | Yes                     | Yes               | Yes                        | Yes <sup>5</sup>     | Yes <sup>5, 22</sup>  | Yes              | No                      | No                | Yes <sup>13</sup>                | Yes | Yes                             | Yes | Yes               | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes |                       |  |                         |  |
| International Business Machines<br>Datainterchange/2       | Yes               | Yes                             | Yes               | No                              | Yes              | Yes                | Yes              | Yes               | Yes | Yes                     | Yes               | Yes                        | Yes                  | Yes                   | Yes              | Yes <sup>28</sup>       | Yes               | Yes                              | Yes | Yes                             | Yes | Yes               | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes |                       |  |                         |  |
| LEE Product Marketing Company, Inc.<br>EDigi               | Yes               | Yes                             | No                | No                              | Yes              | Yes                | Yes              | Yes               | Yes | Yes                     | Yes               | Yes                        | Yes <sup>5</sup>     | Yes <sup>5</sup>      | No               | No                      | No                | Yes                              | Yes | Yes                             | Yes | Yes               | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes |                       |  |                         |  |
| Lloyd Bush, Inc.<br>K-Change                               | Yes               | No                              | Yes               | No <sup>20</sup>                | No <sup>14</sup> | No <sup>37</sup>   | Yes <sup>2</sup> | No                | Yes | Yes                     | Yes               | Yes                        | Yes                  | Yes                   | Yes              | No <sup>28</sup>        | No                | Yes                              | Yes | Yes                             | Yes | Yes               | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | No                    |  |                         |  |

- 23 In development.
- 24 Requires a different map for each affected trading partner's transaction set.
- 25 Specific data element editing requirements can be specified for each trading partner.
- 26 Only checks header controls on inbound transactions
- 27 Checks only the interchange envelope and functional group headers; permits nonstandard transactions to be sent and received.
- 28 Reports the number of transaction sets sent by each trading partner.
- 29 User-specified dates may be overridden.
- 30 Nonautomated; requires use of system editor.
- 31 Reports the number of bytes sent for each transaction set; the number of bytes per network is not reported.
- 32 In Beta Test mode.
- 33 Interchange control checking only.
- 34 Only once per day.
- 35 Records are purged during the archiving process.
- 36 Supported by Harbinger's network.
- 37 Transaction sets are numbered only by functional group or by network.
- 38 Data bases are automatically encrypted.
- 39 Depends upon the transaction sets in use by the trading partner.
- 40 Requires knowledge of EDI standards.
- 41 Loops within transaction sets are not validated for compliance with the standards.

- 1 Trading partners must be set up by vendor.
- 2 May be specified for each transaction set used by a trading partner.
- 3 Nonautomated; available via menu selection or "pull-up window."
- 4 Supports the EDIFACT header UNAUUNB.
- 5 Data element codes are also validated.
- 6 Will sell a turnkey Informix solution (SQL or report writer) or provide interface to another system.
- 7 Parameter driven; optional.
- 8 Can be defined by the user.
- 9 Must be set up every day.
- 10 Cannot be specified for each trading partner.
- 11 Help messages can be defined by the user for each data element in each transaction set used by a particular trading partner.
- 12 Requires vendor assistance.
- 13 Toll-free 800 number.
- 14 BG header is not supported; TDCC is not supported.
- 15 Each transaction set type is not individually numbered.
- 16 Reports the number of blocks transmitted by the modem.
- 17 Performed by vendor.
- 18 Erroneous transactions are received and flagged in a report.
- 19 Available for an additional fee.
- 20 Compliance editing occurs after input screen has been completed.
- 21 Limited field-by-field editing; user can also override the standards on a field basis.
- 22 Accepts erroneous transactions. User manually determines if transaction is acceptable.

[illegible]

- 1 Trading partners must be set up by vendor.
  - 2 May be specified for each transaction set used by a trading partner.
  - 3 Nonautomated; available via menu selection or "pull-up window."
  - 4 Supports the EDIFACT header UNAUNB.
  - 5 Data element codes are also validated.
  - 6 Will sell a turnkey Informix solution (SQL or report writer) or provide interface to another system.
  - 7 Parameter driven; optional.
  - 8 Can be defined by the user.
  - 9 Must be set up every day.
  - 10 Cannot be specified for each trading partner.
  - 11 Help messages can be defined by the user for each data element in each transaction set used by a particular trading partner.
  - 12 Requires vendor assistance.
  - 13 Toll-free 800 number.
  - 14 BG header is not supported; TDCC is not supported.
  - 15 Each transaction set type is not individually numbered.
  - 16 Reports the number of blocks transmitted by the modem.
  - 17 Performed by vendor.
  - 18 Erroneous transactions are received and flagged in a report.
  - 19 Available for an additional fee.
  - 20 Compliance editing occurs after input screen has been completed.
  - 21 Limited field-by-field editing; user can also override the standards on a field basis.
  - 22 Accepts erroneous transactions. User manually determines if transaction is acceptable.
- 
- 23 In development.
  - 24 Requires a different map for each affected trading partner's transaction set.
  - 25 Specific data element editing requirements can be specified for each trading partner.
  - 26 Only checks header controls on inbound transactions.
  - 27 Checks only the interchange envelope and functional group headers; permits nonstandard transactions to be sent and received.
  - 28 Reports the number of transaction sets sent by each trading partner.
  - 29 User-specified dates may be overridden.
  - 30 Nonautomated; requires use of system editor.
  - 31 Reports the number of bytes sent for each transaction set; the number of bytes per network is not reported.
  - 32 In Beta Test mode.
  - 33 Interchange control checking only.
  - 34 Only once per day.
  - 35 Records are purged during the archiving process.
  - 36 Supported by Harbinger's network.
  - 37 Transaction sets are numbered only by functional group or by network.
  - 38 Data bases are automatically encrypted.
  - 39 Depends upon the transaction sets in use by the trading partner.
  - 40 Requires knowledge of EDI standards.
  - 41 Loops within transaction sets are not validated for compliance with the standards.



TABLE D-2. MINICOMPUTER TRANSLATION SOFTWARE SURVEY

| Company and Product   |                   | Communications                   |     |                   |                 | System Interface |                  |                         |                   | Customized Operators           |                     |                 |                 | Editing                 |     |                    |                     | System Maintenance      |     |                  |                 | Reports                |     | Support Features          |     | Miscellaneous Features   |     |              |     |                       |     |                         |    |
|---|-------------------|----------------------------------|-----|-------------------|-----------------|------------------|------------------|-------------------------|-------------------|--------------------------------|---------------------|-----------------|-----------------|-------------------------|-----|--------------------|---------------------|-------------------------|-----|------------------|-----------------|------------------------|-----|---------------------------|-----|--------------------------|-----|--------------|-----|-----------------------|-----|-------------------------|----|
|   |                   | Unattended Operations Capability |     | System Interface  |                 | Input Editing    |                  | Multiple Header Support |                   | Transaction Set Seq. Numbering |                     | Version Support |                 | Trading Partner Profile |     | Compliance Editing |                     | Inbound Site Compliance |     | Automated Purgng |                 | Transmitted Characters |     | User-Defined Mgt. Reports |     | User Support (Hot Lines) |     | Help Screens |     | System Entry Security |     | Selective Accessibility |    |
|   |                   |                                  |     |                   |                 |                  |                  |                         |                   |                                |                     |                 |                 |                         |     |                    |                     |                         |     |                  |                 |                        |     |                           |     |                          |     |              |     |                       |     |                         |    |
|   |                   | Yes                              | No  | Yes               | No              | Yes              | No               | Yes                     | No                | Yes                            | No                  | Yes             | No              | Yes                     | No  | Yes                | No                  | Yes                     | No  | Yes              | No              | Yes                    | No  | Yes                       | No  | Yes                      | No  | Yes          | No  | Yes                   | No  | Yes                     | No |
| ACS Network Systems<br>EDU36, EDU38, and EDU4XX                               | Yes               | Yes                              | N/A | N/A               | N/A             | Yes              | Yes <sup>1</sup> | Yes <sup>2</sup>        | Yes               | Yes <sup>3</sup>               | Yes <sup>3</sup>    | Yes             | No <sup>4</sup> | No                      | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
|   | Yes               | No                               | N/A | N/A               | N/A             | No               | No               | Yes                     | Yes               | Yes                            | Yes                 | No              | No              | No                      | Yes | No                 | Yes                 | Yes                     | Yes | Yes              | No              | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
|   | Yes               | Yes                              | N/A | N/A               | N/A             | Yes <sup>5</sup> | Yes              | Yes <sup>2</sup>        | Yes <sup>6</sup>  | Yes <sup>3</sup>               | Yes <sup>3</sup>    | Yes             | Yes             | Yes <sup>7</sup>        | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | ID and Password | ID and Password        | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
| American Business Computer<br>EDU-E-Cel/Unix                                  | Yes               | Yes                              | Yes | Yes               | No <sup>8</sup> | No <sup>9</sup>  | Yes              | Yes <sup>2</sup>        | Yes               | Yes                            | Yes                 | Yes             | Yes             | Yes                     | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
|   | Yes               | Yes                              | Yes | Yes               | Yes             | Yes              | Yes              | Yes <sup>2</sup>        | Yes               | Yes <sup>3,12</sup>            | Yes <sup>3,12</sup> | Yes             | Yes             | Yes                     | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
| Central Data Corporation<br>RED: TRANSLATOR                                   | Yes               | Yes <sup>11</sup>                | N/A | N/A               | N/A             | Yes <sup>5</sup> | Yes <sup>2</sup> | Yes <sup>2</sup>        | Yes               | Yes                            | Yes                 | Yes             | Yes             | Yes                     | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
| Digital Equipment Corporation<br>DECEDI                                       | Yes <sup>11</sup> | No                               | N/A | N/A               | N/A             | Yes <sup>5</sup> | Yes              | Yes <sup>2</sup>        | Yes               | Yes                            | Yes                 | Yes             | N/A             | No                      | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
| EDI, Inc.<br>TELINK   | Yes <sup>13</sup> | No                               | N/A | N/A               | N/A             | Yes              | Yes              | Yes <sup>2</sup>        | No <sup>14</sup>  | Yes                            | Yes                 | Yes             | Yes             | Yes                     | Yes | Yes <sup>15</sup>  | Yes <sup>4,16</sup> | No                      | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
| EDI Solutions, Inc.<br>EDITran  | Yes <sup>17</sup> | Yes <sup>11,18</sup>             | N/A | N/A               | N/A             | Yes <sup>5</sup> | Yes              | Yes <sup>2</sup>        | Yes <sup>18</sup> | Yes <sup>3</sup>               | Yes <sup>3</sup>    | Yes             | No <sup>4</sup> | No <sup>19</sup>        | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | No  | Yes          | Yes | No                    | No  |                         |    |
| Electronic Data Systems<br>EDI Expert   | Yes               | Yes                              | N/A | N/A               | N/A             | Yes              | Yes              | Yes                     | Yes               | Yes <sup>3</sup>               | Yes <sup>3</sup>    | Yes             | Yes             | Yes                     | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
| International Business Machines<br>Datinterchange/36 and<br>Datinterchange/38 | Yes               | Yes                              | Yes | Yes               | Yes             | Yes              | Yes              | Yes                     | Yes               | Yes                            | Yes                 | Yes             | Yes             | Yes                     | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
|   | Yes               | Yes                              | Yes | Yes <sup>21</sup> | Yes             | Yes              | Yes              | Yes                     | Yes               | Yes                            | Yes                 | Yes             | Yes             | Yes                     | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |    |
| LEE Product Marketing Company, Inc.<br>eDipl                                  | Yes               | Yes                              | No  | No                | Yes             | Yes              | Yes              | Yes                     | Yes               | Yes <sup>3</sup>               | Yes <sup>3</sup>    | No              | No              | No                      | Yes | Yes                | Yes                 | Yes                     | Yes | Yes              | Yes             | Yes                    | Yes | Yes                       | Yes | Yes                      | Yes | No           | No  | No                    | No  |                         |    |

- 1 Also indicates the number of segments transmitted; Ordernet's network bills by the number of segments sent.
  - 2 May be specified for each transaction set used by a trading partner.
  - 3 Data element codes are also validated.
  - 4 Reports the number of transaction sets sent by each trading partner.
  - 5 Supports the EDIFACT header UNA/UNB.
  - 6 Requires vendor assistance.
  - 7 Will provide interface to another data base or sell user a turnkey Informix solution (SQL or report writer).
  - 8 Compliance editing occurs after input screen has been completed.
  - 9 BG header is not supported; TDCC is not supported.
  - 10 Only available on the HP3000.
  - 11 Available for an additional fee.
  - 12 User may add or delete codes for each trading partner.
  - 13 User-specified dates may be overridden.
  - 14 Nonautomated; requires use of system editor.
  - 15 Nonautomated; available via menu selection or "pull-up window."
  - 16 Reports the number of bytes sent for each transaction set; the number of bytes per network is not reported.
- 
- 17 "Batch" mode only.
  - 18 Requires purchase of data mapping product (EDImap).
  - 19 Source code for menus and reports is provided.
  - 20 Compliance editing occurs after input screen has been completed.
  - 21 Limited editing.
  - 22 Records are purged during archiving process.
  - 23 Toll-free 800 telephone number.
  - 24 Requires a different map for each affected trading partner's transaction set.
  - 25 Only outbound transmissions are numbered.
  - 26 User can control the level of checking for each trading partner.
  - 27 Can be customized by user.
  - 28 Specific data element editing requirements can be specified for each trading partner.
  - 29 "Rejected" transaction sets can be optionally accepted.
  - 30 Only once per day.
  - 31 Available upon user request. Limited screens are available.
  - 32 Data dictionary is supplied for use with a report generator; suggest purchasing IBM's "Query" product.

TABLE D-2. MINICOMPUTER TRANSLATION SOFTWARE SURVEY (CONTINUED)

| Company and Product                   |                   | Communications Features        |                   |                    |                  | System Interface |                  |                         |                  | Customized Operations          |                      |                       |                      | Editing                  |                  |                                  |                      | System Maintenance              |     |                   |                  | Reports                |                   | Support Features          |                 | Miscellaneous Features   |     |              |     |                       |     |                         |     |
|---------------------------------------|-------------------|--------------------------------|-------------------|--------------------|------------------|------------------|------------------|-------------------------|------------------|--------------------------------|----------------------|-----------------------|----------------------|--------------------------|------------------|----------------------------------|----------------------|---------------------------------|-----|-------------------|------------------|------------------------|-------------------|---------------------------|-----------------|--------------------------|-----|--------------|-----|-----------------------|-----|-------------------------|-----|
|                                       |                   | Unattended Operations Capacity |                   | Data Input Screens |                  | Input Editing    |                  | Multiple Header Support |                  | Transaction Set Seq. Numbering |                      | Version Support Table |                      | Trading Partner Profiles |                  | Outbound Side Compliance Editing |                      | Inbound Side Compliance Editing |     | Automated Purging |                  | Transmitted Characters |                   | User Defined Mgt. Reports |                 | User Support (Hot Lines) |     | Help Screens |     | System Entry Security |     | Selective Accessibility |     |
|                                       |                   |                                |                   |                    |                  |                  |                  |                         |                  |                                |                      |                       |                      |                          |                  |                                  |                      |                                 |     |                   |                  |                        |                   |                           |                 |                          |     |              |     |                       |     |                         |     |
|                                       |                   | Yes                            | No                | Yes                | N/A              | Yes              | Yes              | Yes                     | Yes <sup>2</sup> | Yes                            | Yes                  | Yes <sup>24</sup>     | Yes <sup>24</sup>    | Yes <sup>26</sup>        | Yes <sup>3</sup> | Yes                              | No <sup>22</sup>     | Yes                             | No  | Yes <sup>23</sup> | Yes              | Yes                    | Yes <sup>4</sup>  | No                        | Yes             | Yes <sup>23</sup>        | No  | Yes          | Yes | Yes                   | Yes | Yes                     | Yes |
| IMPACT Messageway                     | Yes               | No                             | N/A               | N/A                | Yes              | Yes              | Yes <sup>2</sup> | Yes                     | Yes              | Yes <sup>24</sup>              | Yes <sup>24</sup>    | Yes <sup>26</sup>     | Yes <sup>3</sup>     | Yes                      | No <sup>22</sup> | Yes                              | No                   | Yes <sup>23</sup>               | Yes | Yes               | Yes <sup>4</sup> | No                     | Yes               | Yes <sup>23</sup>         | No              | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |     |
| Pervill Inc. Permill*EDI              | Yes               | Yes                            | Yes               | Yes <sup>20</sup>  | Yes              | Yes              | Yes              | Yes                     | Yes              | Yes <sup>24</sup>              | Yes <sup>24</sup>    | Yes <sup>26</sup>     | Yes <sup>3</sup>     | Yes <sup>3</sup>         | No <sup>15</sup> | Yes                              | Yes                  | Yes                             | Yes | Yes               | Yes <sup>4</sup> | No                     | Yes               | Yes <sup>23</sup>         | No              | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |     |
| Piedmont Systems, Inc. TEL-EDI        | Yes               | Yes                            | Yes               | No                 | Yes              | Yes              | Yes <sup>2</sup> | Yes                     | No <sup>25</sup> | Yes                            | Yes <sup>24</sup>    | Yes <sup>26</sup>     | Yes <sup>3</sup>     | Yes <sup>3</sup>         | Yes              | Yes                              | No                   | Yes                             | Yes | Yes <sup>4</sup>  | No               | Yes                    | Yes <sup>23</sup> | No                        | Yes             | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |     |
| Radley Business Computers, Inc. R-EDI | Yes               | Yes                            | No <sup>11</sup>  | No                 | Yes              | Yes              | Yes              | Yes                     | No <sup>25</sup> | Yes                            | Yes <sup>24</sup>    | Yes <sup>26</sup>     | Yes <sup>3</sup>     | Yes <sup>3</sup>         | Yes              | No                               | No                   | Yes                             | Yes | Yes <sup>4</sup>  | No               | Yes                    | Yes <sup>23</sup> | Yes <sup>27</sup>         | Yes             | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |     |
| RAMS, Inc. RAMS VLT                   | Yes               | Yes <sup>11</sup>              | N/A               | N/A                | Yes              | Yes              | Yes <sup>2</sup> | Yes                     | Yes              | Yes                            | Yes <sup>24</sup>    | Yes <sup>26</sup>     | Yes <sup>3</sup>     | Yes <sup>3</sup>         | No <sup>15</sup> | No                               | No                   | Yes                             | Yes | Yes <sup>4</sup>  | No               | Yes                    | Yes <sup>23</sup> | Yes                       | Yes             | ID and Password          | Yes | Yes          | Yes | Yes                   | Yes |                         |     |
| St. Paul Software Datanet             | Yes               | Yes                            | N/A               | N/A                | Yes              | Yes              | Yes <sup>2</sup> | Yes                     | Yes <sup>2</sup> | Yes                            | Yes                  | Yes                   | Yes                  | Yes                      | Yes              | No                               | Yes                  | Yes                             | Yes | No                | Yes              | No                     | Yes               | Yes                       | Yes             | No                       | No  | No           | No  | No                    | No  |                         |     |
| Stirling Software GENRAIN 400         | Yes               | Yes                            | N/A               | N/A                | Yes <sup>5</sup> | Yes <sup>2</sup> | Yes <sup>2</sup> | Yes                     | Yes <sup>2</sup> | Yes                            | Yes                  | Yes <sup>3</sup>      | Yes <sup>3</sup>     | Yes <sup>3</sup>         | Yes              | Yes <sup>1</sup>                 | No                   | Yes <sup>23</sup>               | No  | Yes <sup>1</sup>  | Yes              | No                     | Yes               | Yes                       | ID and Password | Yes                      | Yes | Yes          | Yes | Yes                   | Yes |                         |     |
| Translator*36, *38, and *4XX          | Yes <sup>2</sup>  | Yes                            | N/A               | N/A                | Yes              | Yes              | Yes <sup>2</sup> | Yes                     | Yes              | Yes <sup>14, 28</sup>          | Yes <sup>29</sup>    | Yes <sup>3, 29</sup>  | Yes <sup>3</sup>     | Yes <sup>29</sup>        | No               | No                               | Yes                  | Yes                             | No  | No                | Yes <sup>4</sup> | Yes                    | Yes <sup>23</sup> | Yes                       | Yes             | ID and Password          | Yes | Yes          | Yes | Yes                   | Yes | Yes                     |     |
| Translator*DG                         | No                | Yes                            | N/A               | N/A                | Yes              | Yes              | Yes <sup>2</sup> | Yes                     | Yes              | Yes <sup>6, 28</sup>           | Yes <sup>3, 29</sup> | Yes <sup>3</sup>      | Yes <sup>3, 29</sup> | Yes <sup>3</sup>         | Yes              | Yes                              | Yes <sup>17</sup>    | Yes <sup>23</sup>               | Yes | Yes               | Yes              | No                     | Yes               | Yes                       | ID and Password | Yes                      | Yes | Yes          | Yes | Yes                   | Yes | Yes                     |     |
| Wright Systems, Inc. Wright EDI       | Yes <sup>30</sup> | No                             | Yes <sup>31</sup> | No                 | Yes              | No               | Yes <sup>2</sup> | No                      | Yes <sup>2</sup> | No                             | Yes <sup>2</sup>     | Yes                   | Yes <sup>2</sup>     | Yes <sup>2</sup>         | Yes              | No <sup>4</sup>                  | No <sup>19, 32</sup> | Yes                             | Yes | No <sup>4</sup>   | Yes              | Yes                    | Yes               | Yes                       | Yes             | Yes                      | Yes | Yes          | Yes | Yes                   | Yes | Yes                     |     |

- 1 Also indicates the number of segments transmitted; Ordernet's network bills by the number of segments sent.
  - 2 May be specified for each transaction set used by a trading partner.
  - 3 Data element codes are also validated.
  - 4 Reports the number of transaction sets sent by each trading partner.
  - 5 Supports the EDIFACT header UNAAUNB.
  - 6 Requires vendor assistance.
  - 7 Will provide interface to another data base or sell user a turnkey Informix solution (SQL or report writer).
  - 8 Compliance editing occurs after input screen has been completed.
  - 9 BG header is not supported; TDCC is not supported.
  - 10 Only available on the HP3000.
  - 11 Available for an additional fee.
  - 12 User may add or delete codes for each trading partner.
  - 13 User-specified dates may be overridden.
  - 14 Nonautomated; requires use of system editor.
  - 15 Nonautomated; available via menu selection or "pull-up window."
  - 16 Reports the number of bytes sent for each transaction set; the number of bytes per network is not reported.
- 
- 17 "Batch" mode only.
  - 18 Requires purchase of data mapping product (EDImap).
  - 19 Source code for menus and reports is provided.
  - 20 Compliance editing occurs after input screen has been completed.
  - 21 Limited editing.
  - 22 Records are purged during archiving process.
  - 23 Toll-free 800 telephone number.
  - 24 Requires a different map for each affected trading partner's transaction set.
  - 25 Only outbound transmissions are numbered.
  - 26 User can control the level of checking for each trading partner.
  - 27 Can be customized by user.
  - 28 Specific data element editing requirements can be specified for each trading partner.
  - 29 "Rejected" transaction sets can be optionally accepted.
  - 30 Only once per day.
  - 31 Available upon user request. Limited screens are available.
  - 32 Data dictionary is supplied for use with a report generator; suggest purchasing IBM's "Query" product.

TABLE D-3. MAINFRAME TRANSLATION SOFTWARE SURVEY

| Company and Product  |  | Unattended Operation Capability |    | User-Defined System Functions |     | Data Input Screens |     | Input Editing           |    | Multiple Header Support        |    | Transaction Set Seq. Numbering |    | Version Table Support   |    | Trading Partner Profile |    | Compliance Editing  |    | Automated Purging      |    | Transmitted Characters    |    | User-Defined Mfr. Reports  |    | User Support (Prod. Lines) |    | Help Screens          |    | System Entry Security  |    | Miscellaneous Features |    |
|--|--|---------------------------------|----|-------------------------------|-----|--------------------|-----|-------------------------|----|--------------------------------|----|--------------------------------|----|-------------------------|----|-------------------------|----|---------------------|----|------------------------|----|---------------------------|----|----------------------------|----|----------------------------|----|-----------------------|----|------------------------|----|------------------------|----|
|  |  | Operator Capability             |    | Data Input                    |     | Input Editing      |     | Multiple Header Support |    | Transaction Set Seq. Numbering |    | Version Table Support          |    | Trading Partner Profile |    | Compliance Editing      |    | Automated Purging   |    | Transmitted Characters |    | User-Defined Mfr. Reports |    | User Support (Prod. Lines) |    | Help Screens               |    | System Entry Security |    | Miscellaneous Features |    |                        |    |
|  |  | Yes                             | No | Yes                           | No  | Yes                | No  | Yes                     | No | Yes                            | No | Yes                            | No | Yes                     | No | Yes                     | No | Yes                 | No | Yes                    | No | Yes                       | No | Yes                        | No | Yes                        | No | Yes                   | No | Yes                    | No |                        |    |
|  |  | Yes                             | No | Yes                           | No  | Yes                | No  | Yes                     | No | Yes                            | No | Yes                            | No | Yes                     | No | Yes                     | No | Yes                 | No | Yes                    | No | Yes                       | No | Yes                        | No | Yes                        | No | Yes                   | No | Yes                    | No | Yes                    | No |
| American Business Computer<br>XLT12                              |  | Yes                             |    | Yes                           | N/A | N/A                | N/A | Yes                     |    | Yes                            |    | Yes                            |    | Yes                     |    | Yes                     |    | Yes                 |    | Yes                    |    | No                        |    | Yes                        |    | No                         |    | No                    |    | No                     |    |                        |    |
| Central Data Corporation<br>REDI-TRANSLATOR and<br>REDI-EXCHANGE |  | Yes                             |    | Yes <sup>1</sup>              | N/A | N/A                | N/A | Yes <sup>2</sup>        |    | Yes <sup>3</sup>               |    | Yes <sup>3</sup>               |    | Yes                     |    | Yes <sup>4</sup>        |    | Yes                 |    | Yes                    |    | Yes                       |    | Yes                        |    | Yes                        |    | Yes <sup>1</sup>      |    | Yes <sup>1</sup>       |    |                        |    |
| EDI Solutions, Inc.<br>EDIZone                                   |  | Yes <sup>5</sup>                |    | Yes <sup>1,6</sup>            | N/A | N/A                | N/A | Yes <sup>2</sup>        |    | Yes                            |    | Yes <sup>3</sup>               |    | Yes <sup>6</sup>        |    | Yes <sup>7</sup>        |    | Yes                 |    | Yes                    |    | No <sup>8</sup>           |    | Yes                        |    | Yes                        |    | Yes                   |    | No                     |    |                        |    |
| General Electric Information Services<br>EDI*Central             |  | Yes                             |    | Yes <sup>10</sup>             | N/A | N/A                | N/A | Yes <sup>2</sup>        |    | Yes                            |    | Yes <sup>3</sup>               |    | Yes                     |    | Yes <sup>7</sup>        |    | Yes                 |    | Yes                    |    | No <sup>8</sup>           |    | Yes <sup>9,11</sup>        |    | Yes <sup>12</sup>          |    | Yes <sup>13</sup>     |    | No                     |    |                        |    |
| International Business Machines<br>Datainterchange/MVS           |  | Yes <sup>14</sup>               |    | Yes                           | Yes | No                 | Yes | Yes                     |    | Yes                            |    | Yes                            |    | Yes <sup>15</sup>       |    | Yes                     |    | Yes                 |    | Yes                    |    | No                        |    | Yes                        |    | Yes                        |    | Yes                   |    | Yes                    |    |                        |    |
| St. Paul Software<br>Datastran                                   |  | Yes                             |    | Yes                           | N/A | N/A                | N/A | Yes                     |    | Yes <sup>3</sup>               |    | Yes <sup>3</sup>               |    | Yes                     |    | Yes                     |    | Yes                 |    | Yes                    |    | No                        |    | Yes                        |    | Yes                        |    | Yes                   |    | Yes                    |    |                        |    |
| Sterling Software<br>GENTRAN and GENTRAN Plus                    |  | Yes <sup>16</sup>               |    | Yes                           | N/A | N/A                | N/A | Yes <sup>2</sup>        |    | Yes <sup>3</sup>               |    | Yes <sup>3</sup>               |    | Yes                     |    | Yes <sup>7</sup>        |    | Yes <sup>14</sup>   |    | Yes <sup>17</sup>      |    | No                        |    | Yes <sup>12</sup>          |    | No                         |    | ID and Password       |    | Yes                    |    |                        |    |
| Translator*MPV5 and Translator*VSE                               |  | Yes                             |    | Yes                           | N/A | N/A                | N/A | Yes                     |    | Yes                            |    | Yes <sup>3</sup>               |    | Yes <sup>15,18</sup>    |    | Yes <sup>7</sup>        |    | Yes <sup>7,19</sup> |    | Yes                    |    | Yes                       |    | Yes <sup>12</sup>          |    | Yes                        |    | ID and Password       |    | No                     |    |                        |    |
| YSI International<br>Transfile                                   |  | Yes <sup>14</sup>               |    | Yes                           | N/A | N/A                | N/A | Yes                     |    | Yes                            |    | Yes <sup>3</sup>               |    | Yes                     |    | Yes <sup>7</sup>        |    | Yes                 |    | Yes                    |    | Yes                       |    | Yes                        |    | No                         |    | ID and Password       |    | Yes                    |    |                        |    |

1 Available for an additional fee

<sup>1</sup> Available for an additional fee.

<sup>2</sup> Supports the EDIFACT header UNAS/UNB.

<sup>3</sup> May be specified for each transaction set used by a trading partner.

<sup>4</sup> User may add or delete codes for each trading partner.

<sup>5</sup> "Batch" mode only.

<sup>6</sup> Requires purchase of data mapping product (EDImap).

<sup>7</sup> Data element codes are also validated.

<sup>8</sup> Reports the number of transaction sets sent by each trading partner.

<sup>9</sup> Source code for menus and reports is provided.

<sup>10</sup> A shell written in COBOL is provided; programmer must complete the PROCEDURE division.

<sup>11</sup> Requires a report writer.

<sup>12</sup> Toll-free 800 telephone number.

<sup>13</sup> For CICS portion only.

<sup>14</sup> Requires the use of operating system utilities.

<sup>15</sup> Specific data element editing requirements can be specified for each trading partner.

<sup>16</sup> Only in GENTRAN Plus; may be set up by transaction set, trading partner, or network.

<sup>17</sup> Also indicates number of segments transmitted; OrderNet's network bills by the number of segments sent.

<sup>18</sup> Nonautomated; requires use of system editor.

<sup>19</sup> "Rejected" transaction sets can be optionally accepted

## **APPENDIX E**

### **SELECTING EDI TRANSLATION SOFTWARE**

This appendix discusses how this guide can be used to aid in the selection of EDI translation software for Military Department or Defense agency activities. A step-by-step procedure for selecting EDI translation software for a particular activity follows:

- Identify the activity's EDI data processing requirements, including the application system that will be integrated with the EDI translation software.
- Identify the hardware and corresponding operating system upon which the EDI software will reside. Categorize the hardware as microcomputer, minicomputer, or mainframe and determine the EDI translation software requirements for a specific activity. Use Appendix C to identify the functions and features required by the EDI translation software package for the specific operating environment.
- Use Appendix A to identify those vendors that sell software for the desired hardware environment (microcomputer, minicomputer, or mainframe).
- Use Appendix B to look up the detailed software product offerings and descriptions for those vendors identified in the previous step. Identify those vendor products that offer EDI translation software for the required hardware and operating system.
- Determine if the products identified in the previous step satisfy the activity's major EDI translation software requirements by using Appendix D, Software Product Survey Results.

In most cases, more than one product will meet an activity's requirements. We then suggest that product literature be requested from those vendors and, procurement rules permitting, we also advise a product demonstration. If only one product meets an activity's requirements, we recommend that a test copy be obtained and tested on the system that is to become EDI capable.